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1922/23

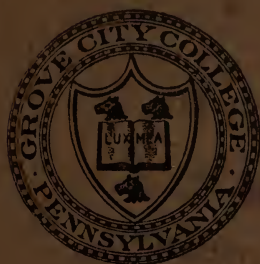
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NUMBER 1

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APRIL, 1923



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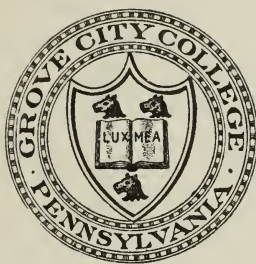
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Forty-Eighth Year

Grove City College

Catalogue for 1922-1923

*With Calendar and Courses of
Study for the Year 1923-1924*



Grove City, - Pennsylvania

For Information and Catalogues

Write the Registrar

HAROLD O. WHITE

Grove City, Pennsylvania

CALENDAR

1923

January 2, Tuesday	Registration of students for the Winter Term.
January 3, Wednesday	Recitations begin 7:40 A. M.
March 20-23	Final Examinations for the Winter Term.
March 27, Tuesday	Registration of students for the Spring Term.
March 28, Wednesday	Recitations begin 7:40 A. M.
June 5-8	Final Examinations for the Spring Term.
June 10, Sunday	} Exercises of Commencement Week.
June 11, Monday	
June 12, Tuesday	
June 13, Wednesday	
June 19, Tuesday	Registration of students for the Summer Term.
June 20, Wednesday	Recitations begin 7:40 A. M.
August 14-17	Final Examinations for the Summer Term.
September 24, Monday	Registration of New Students for the Fall Term.
September 25, Tuesday	Registration of Sophomores, Juniors and Seniors.
September 26, Wednesday	Recitations begin 7:40 A. M.
December 11-14	Final Examinations for the Fall Term.

1924

January 1, Tuesday	Registration of students for the Winter Term.
January 2, Wednesday	Recitations begin 7:40 A. M.
March 18-21	Final Examinations for the Winter Term.
March 25, Tuesday	Registration of students for the Spring Term.
March 26, Wednesday	Recitations begin 7:40 A. M.
June 3-6	Final Examinations for the Spring Term.
June 8, Sunday	} Exercises of Commencement Week.
June 9, Monday	
June 10, Tuesday	
June 11, Wednesday	
June 17, Tuesday	Registration of students for the Summer Term.
June 18, Wednesday	Recitations begin 7:40 A. M.
August 12-15	Final Examinations for the Summer Term.

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When first elected		Residence
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1919	J. S. CRUTCHFIELD.....	Pittsburgh
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1922	HARRY W. CRAWFORD.....	Emlenton
1916	WEIR C. KETLER, Ex-Officio.	

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College Pastor, Samuel P. Harbison Professor of Bible

* Absent on leave 1922-23.

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MUSIC

HOMER C. WELCH
Grove City, Pennsylvania

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HAROLD O. WHITE, A. M.....	Registrar
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E. C. MYERS.....	Bursar
INA MAYE MORROW.....	Secretary to the President
ALICE NIECE.....	Secretary to the Registrar
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MABEL K. MULLER, A. B.....	Librarian
HAZEL HILL.....	Assistant Librarian

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DR. CALDERWOOD	DR. OLIPHANT	DR. PLATT	DR. SIEPLEIN
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PROF. HARMON	PROF. HAYES	PROF. PFLUEGER

Committee on Student Activities

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MRS. THOMPSON	PROF. MILLER	PROF. LEAGER
	MISS BELL	

Committee on Physical Training

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MR. THORN	MR. WHITE	

Publications Committee

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PROF. BURROWES	MISS GRIFFIN	DR. SHOCKLEY
PROF. MCEUEN	PROF. REES	

HISTORICAL SKETCH

The first effort to provide instruction in college preparatory studies in Pine Grove, now Grove City, was made in 1858 by the Reverend Richard M. Thompson, D. D.

In 1864 the Reverend William T. Dickson became pastor of the Presbyterian Church of Pine Grove. He and his wife, Mrs. Harriet L. Dickson, maintained a private school for the young people of this community. This school was held in their home till the attendance justified the use of a larger room. It was then moved to the Presbyterian Church, where it was continued with but slight interruption for ten years.

In 1874 the school directors of Pine Township built a one-story two-roomed brick school house. To this building those interested in higher education added a second story. In this second story of the public school building in Pine Grove, a select school was started. The committee of the stockholders of this upper room consisted of Joseph Humphrey, president; James A. Gilmore, secretary; N. W. Van Eman, M. D., O. P. McCoy, and James Hunter. Isaac C. Ketler, of Blacktown, a village four miles west of Pine Grove, rented this upper room, furnished it at his own expense, and opened the school with thirteen students on April 11, 1876. Twenty-four students enrolled in that term. On August 8, 1876, the first fall session of the school opened with an attendance of about eighty students. Samuel R. McClelland assisted Mr. Ketler during that session.

In September, 1878, a meeting of the citizens was called to consider the propriety of securing real estate on which to erect an academy building. At this meeting Mr. Robert G. Black presided. In opening the meeting he said, "In view of the very great and vital interest which has brought us together, it is proper and wise that Divine guidance and blessing be sought." The religious spirit

of that first meeting of the citizens has characterized the subsequent work of this school.

A finance committee, composed of William A. Young, J. M. Martin, M. D., James P. Locke, James Hunter, and Joseph Humphrey, was appointed to provide means for the purchase of grounds and the erection of an academy building; and to apply for a charter of incorporation for the academy. In August, 1879, the Court of Common Pleas of Mercer County, Pennsylvania, granted a charter of incorporation for the purpose of establishing and maintaining a school in Pine Grove, to be known as The Pine Grove Normal Academy. The aforesaid finance committee, under the charter, constituted the Board of Trustees until their successors, a board of fifteen trustees, were elected on the second Monday of January, 1880. The capital stock of the corporation was at first limited to \$25,000 to be sold in shares of \$10 each. The stock was afterward increased to \$50,000. When four hundred shares had been subscribed, and when twenty per cent of the stock was paid in, the charter was to go into effect. Captain R. C. Craig was appointed to solicit funds. Early in the spring of 1879 the required amount of stock having been sold and twenty per cent of it having been paid in, the finance committee purchased ground and began the erection of a building. The four acres of ground and the building cost about \$10,000. This building was first occupied in December, 1879. From that time on the growth of the institution has been rapid and continuous.

In 1881 the attendance of students had so increased that the demand for larger facilities became imperative. In 1882 another building was erected. It is now a part of the Physics Building. A small dormitory for young women was built by the Reverend W. J. McConkey and was rented to the Academy. Later the College purchased this building, enlarged, and improved it to meet the needs of the Music Department.

By decree of the Court of Quarter Sessions January 4, 1883, the town of Pine Grove was incorporated under the name of Grove City. The first election for borough officers was held February 3, 1883.

In 1883 the annual attendance at the Academy had increased to five hundred students. The work had been mainly the preparation of teachers for teaching and of students for college, although in 1881 and 1882 classes were graduated in a scientific course of study, and received diplomas and degrees. A collegiate classical course was desired in this institution. The smallness of the expenses at the school made it possible for students of limited means to take such a course. At the request of the Board of Trustees a decree was granted November 21, 1884, which changed the Academy to a college.

In September, 1894, the institution had property valued at \$100,000. It was in debt and needed a more adequate equipment for the work undertaken. It was felt that unless more help could be secured about all that was possible had been accomplished by the institution. There were fears that it would ultimately fail to meet its obligations. Up to this time the funds for the building of the college and for its maintenance had been secured largely within a radius of four miles of Grove City. President Ketler made known the situation to persons of means at a distance from Grove City, among whom were Mr. J. N. Pew, then of Pittsburgh, and Mr. S. P. Harbison, of Allegheny, Pennsylvania.

Messrs. Pew and Harbison advised the elimination of the stock features of the college so that the institution might be incorporated in the class of eleemosynary institutions. Accordingly on November 3, 1894, the stockholders of the College met in the College Chapel and without a dissenting voice voted to eliminate the stock features and to permit the college charter to be amended so as to place the College in the class of public charities with a self-perpetuating Board of Trustees.

The unanimous vote cast in favor of the change is a remarkable honor to this community. There were 256 stockholders representing different religious denominations, and maintaining different attitudes toward the College. They surrendered their entire property right in the College that others, with larger means, might come to the relief of the College and direct its work. It is possible that one negative vote would have legally checked the desired step.

The fifteen trustees who had been previously chosen by the stockholders became petitioners for the amendments which, when granted, would change the entire legal aspect of the College. The final decree making these changes was ordered on December 10, 1894, a little more than ten years after the College was incorporated. From a stock corporation, in which more than two hundred persons had a property right, it became a corporation in the class of public charities. The former trustees and fifteen others became the legal guardians or trustees of the new corporation.

The management of the institution up to January, 1895, was lodged in a board of fifteen trustees chosen by the stockholders from their number. Five of these were chosen annually to serve for three years. As the stock was held almost exclusively by citizens of the community within a radius of four miles of the College, the members of the board were necessarily local. But to their wise and careful administration is largely due the success of the College. Severely economical where economy could be practiced with safety, generous even to personal sacrifices when the resources of the College were not adequate to its plainly evident needs, investing every dollar of a sadly insufficient income where it would count most for the advancement of the College, in season and out of season they gave the College their time, their money, and their consecrated service. Among the men of Grove City who never failed in their support of the College were W. A. Young, Thomas W. Dale, R. C. Craig, and J. C. Glenn.

On January 2, 1895, the fifteen trustees who had been appointed under the amended charter met in the College, and elected fifteen additional trustees, who should have a part with them in this trust. The trustees present were W. A. Young, T. W. Dale, J. C. Glenn, W. J. McConkey, D. D., John N. White, Newton Campbell, James Simpson, W. J. McKay, A. M. Craig, Perry F. Say, J. J. McGarvey, Joseph A. McDowell, D. F. Courtney, S. F. Thompson, Esq., and Beriah Magoffin, Esq. They unanimously elected the following citizens of Pennsylvania to serve as trustees: J. N. Pew, A. P. Burchfield, W. J. Young, and J. T. Gibson, D. D., of Pittsburgh; Wm. M. McMillan, D. D., LL. D., Samuel P. Harbison, and W. L. Pierce, Esq., of Allegheny; Edward O'Neil, of

Sewickley; Judge Christopher W. Heydrick, of Franklin; W. D. Brandon, Esq., and W. E. Oller, D. D., of Butler; J. T. Blair, of Greenville; David Gilson, of London, and James B. McClelland, D. D., of Grove City.

On January 31, 1895, at 2 P. M., the thirty trustees by lot arranged themselves into three equal classes; one class to serve till the annual meeting, the Tuesday before Commencement, 1896; the second class till the annual meeting in June, 1897; and the third class till the annual meeting in June, 1898. The Board was fully organized by the election of the following officers: J. N. Pew, president; W. H. McMillan, D. D., LL. D., vice president; J. C. Glenn, secretary; and William A. Young, treasurer.

At the death of William A. Young, the Grove City National Bank was made treasurer. J. N. Pew served as president till his death in October, 1912. At that time F. R. Babcock, of Pittsburgh, was elected president.

Isaac C. Ketler, D. D., LL. D., the founder, was president of the College till his death on July 2, 1913. His successor was Alexander Thomas Ormond, the head of the Department of Philosophy in Princeton University. He held office till his death on December 18, 1915. Weir C. Ketler, the assistant to the president, was elected president on June 13, 1916.

During the more than forty years of its existence there has been constant development in the number, equipment, and scholarship of the Faculty of the College. The ideal has always been that Christian training must be a large part of a true education. The college courses stand for sound and liberal culture, vital religion, and practical efficiency. This school is animated by the spirit of service to God and humanity.

The progress of the College since its reorganization in 1895 has been rapid. At the reorganization the value of the property was estimated at \$100,000. Then there were two buildings. Now the College has a campus of over fifty acres in the center of the town, with nine buildings. The college plant is valued at more than \$700,000.

GENERAL INFORMATION

THE TOWN

Grove City College is located in Grove City, Pennsylvania, a town of about five thousand, on the Bessemer and Lake Erie Railroad. The town is 1300 feet above sea level and is supplied with pure water from artesian wells. The health conditions are excellent. This, together with the beauty of the surroundings and progressive character of the town, gives Grove City advantages possessed by few college towns. Connections are made at Butler with the Buffalo, Rochester & Pittsburgh and the Pennsylvania Railways, at Mercer with the Pennsylvania, and at Osgood with the Lake Shore. There are four daily trains to Pittsburgh and to Erie.

THE COLLEGE

Grove City College is a non-denominational Christian college. No religious test is required of members of the Board of Trustees, Faculty, or student body. The College emphasizes Christian character, and from it there go out many young men and women to enter the gospel ministry or engage in other Christian work. More men enter the gospel ministry from this institution than from any other college in Pennsylvania. Each year, in August, a Bible Conference is held under the auspices of the College. This Conference continues ten days, and at it special courses by distinguished scholars and clergymen from both sides of the Atlantic are offered.

College work is begun each day with devotional exercises. Divine services are held each Sabbath morning in the chapel. College prayer-meetings are held regularly during each session.

Grove City College stands for classical education broadened by thorough work in mathematics and the sciences.

THE CAMPUS

The campus of over sixty acres is located in the center of the town and is divided by Wolf Creek. On the left bank are woodlands and the dormitory for men. Here the Board of Trustees of the College has recently purchased what is known as the McMillan property. This is a plot of land containing approximately eighteen acres. It lies in the rear of Memorial Hall, the dormitory for men, and gives the College a magnificent strip of ground overlooking the main campus. It includes a piece of virgin forest which affords a striking background for Memorial Hall.

On the right bank is the main campus with the athletic field and the other college buildings. These college buildings are heated with steam and lighted with electricity supplied from a central power plant.

THE BUILDINGS

The Administration Building, erected in 1888, is a four-story brick building and contains the offices, several recitation rooms, six laboratories for chemistry, two large rooms for use of the commercial school, and club rooms for the four literary societies.

Recitation Hall, a two-story brick building erected in 1879, contains six recitation rooms, the art studio, and two rooms for biology.

Physics Building, erected in 1902, contains a lecture room, several laboratories, and a large room for mechanical draughting. It is well equipped with apparatus for instruction in both general and advanced physics.

Ivy Chapel contains a small auditorium for the use of the student organizations and a large recitation room.

Carnegie Library contains, in addition to the library and reading room, a public auditorium with seating capacity for four hundred, in which is a two-manual pipe organ.

Music Hall, erected in 1895, is equipped with auditorium, recitation and practice rooms, containing the facilities for carrying on the work of the Conservatory of Music.

The Gymnasium, erected in 1912, is described under the Department of Athletics and Physical Training.

The Colonial, Pelton, and Cunningham, the dormitories for young women, and Memorial Hall are described in the section for room and boarding.

THE LIBRARY

Some years ago through the generosity of Mr. Andrew Carnegie the College was presented with a splendid library building. The building is of steel and brick construction trimmed with white Indiana limestone. It contains, on the ground floor, a Children's Library. It is used by the school children of the town. The main floor is devoted entirely to the College Library. In it are the stacks, general reading room with reference shelves, magazine racks, charging office, Librarian's office, etc.

During the past few years the Library has been largely increased. Through the generosity of the Library Committee of the Board of Trustees of which Mr. James H. Hammond, of Pittsburgh, is Chairman, and through the careful work of the Librarian and the Library Committee, whose chairman is Dr. S. G. Oliphant, more than twelve thousand new books have been placed on the college shelves. At present the total number of books in the Library is approximately twenty thousand volumes. More than one hundred-forty periodicals are found on the magazine shelves. Among the special collections of books in the Library is the "General George B. McClelland Collection of Civil War Books and Documents" presented by General McClelland's son, Professor George B. McClelland, of Princeton University. Another unique set of books is the complete Congressional Record, dating from 1793 down to the present time. There is an unusual collection of books on the late war and an excellent collection of books on business in its various phases. These splendid collections, together with the periodical literature covering every phase of modern thought, form a real intellectual center of college life

There are no Library fees. The student is welcome and encouraged to make full use of the opportunities afforded by the Library.

THE ISAAC C. KETLER MEMORIAL FOUNDATION

This Foundation was the natural outgrowth of the feeling that a fitting memorial should be established to the memory of Dr. Isaac C. Ketler, the Founder and First President of Grove City College. This feeling took definite form at the annual meeting of the Alumni Association in June, 1914, when a committee was appointed to consider the matter, and in its report recommended that the Alumni Association raise a fund of Sixty Thousand Dollars to be used as permanent endowment and this be known as the Isaac C. Ketler Memorial Foundation. The report of the committee was unanimously adopted and a permanent committee was appointed. At the Alumni meeting in June, 1916, it was announced that the entire Sixty Thousand Dollars had been subscribed. Mr. F. R. Babcock, President of the Board of Trustees, announced at the same time that the Trustees had raised a like amount to be added to the Foundation, thus making a fund of One Hundred and Twenty Thousand Dollars to be used as a permanent memorial to the founder and builder of Grove City College.

SAMUEL P. HARBISON CHAIR OF BIBLE

The action creating the Samuel P. Harbison Chair of Bible was taken at the regular meeting of the Board of Trustees on February 1, 1918. The action represented the unanimous will of the members of the Board and was a voluntary and grateful testimony of their appreciation of the large and vital part played by Mr. Harbison and his Estate in the growth of the College.

Mr. Samuel Pollock Harbison joined the Board of Trustees of Grove City College at the time of its reorganization in 1895. During the remainder of his life he was active in all the counsels of the College and was one of its most generous benefactors. He was a man of rare spiritual insight and his influence on the ideals of the College has been deep and lasting.

The chair is one of the most liberally endowed chairs of its kind in the country. The endowment totals \$55,000. Of this amount, \$45,000 was given by the Harbison Estate and \$10,000 by the General Board of Education of the Presbyterian Church.

THE ELIZABETH HARBISON FUND

Recently through the benefaction of Miss Martha Harbison, at one time a student in the College, a fund of over three thousand dollars has been created for the benefit of the Library. The proceeds of this fund, which is a memorial to Miss Harbison's mother, Mrs. Elizabeth Harbison, are used in building up the Library.

OTHER ENDOWED FUNDS

In addition to the endowed funds mentioned above, the College has other general endowment funds.

LIEUTENANT JAMES PEEBLES OVER PRIZE

Through the generosity of an alumnus of Grove City College, a memorial prize has been established. The prize which is an annual one of Twenty-five Dollars is to be awarded to the student making the best record in extemporaneous speaking during the year. The method of selection will be determined by the Faculty. The prize will be known as the Lieutenant James Peebles Over Prize. Lieutenant Over who served with the American Expeditionary Forces and lost his life in France, was a close personal friend of the alumnus establishing the prize.

PREPARATION FOR TEACHING

The graduate of a college is eligible to receive a provisional college certificate from the Department of Public Instruction of Pennsylvania, if during his college course he has completed twenty-seven term hours' work in educational subjects. The requirement is met by 9 hours Practice Teaching and 18 hours in Introduction to Teaching, Educational Psychology, Special Methods, and an elective in the Department of Education. The

Permanent College Certificate may be obtained by completing 9 term hours additional work, half of which must be in the field of Education.

WORK PRELIMINARY TO ENGINEERING

If a young man, after graduating from high school, has spent two years in the cultural, humanitarian atmosphere of a college of liberal arts, he has received a fundamental training in the best things which enables him to grasp more quickly and to use better a later training in applied science. The student who is well grounded in pure science can with little effort develop in the sphere of applied science. He is a better engineer or doctor for his training in college; in addition to this he is a better citizen, more in sympathy with his fellow citizens and better able to assist in the solution of economic problems. Grove City College offers thorough work in the fundamentals of mathematics, physics, chemistry, and biology. This fundamental work in these subjects is carried on with the ideal of pure science rather than that of utilitarianism. With two years at college, a young man who has availed himself of the opportunities in science and mathematics can complete a course in an engineering school in three years.

PREPARATION FOR RELIGIOUS WORK

The number of graduates of the College who have taken up some form of religious work is large. Strong work in the Classics, English, and Philosophy has built a solid foundation for later development. Every year a number of graduates enter the various theological seminaries. The reports from these schools show that the graduates of Grove City College are well trained in habits of thought and study.

STUDENT ORGANIZATIONS

There are four literary societies in the college—Shakespeare and Webster, for young men; Speedwell and Philokalian, for young women. These societies have been in existence from twenty to thirty years, and are composed of the best talent in

the student body. Each society has its own club room which is well furnished and equipped. The order of exercises includes orations, debates, music, impromptu speeches, and friendly criticism.

The College is a member of the Western Pennsylvania Inter-collegiate Oratorical Association, of the Pentagonal Debating League of Western Pennsylvania (for men's teams) and of a Triangular League for women's teams. Occasional debates are also scheduled outside these organizations. It has the Pennsylvania Alpha Chapter of PI KAPPA DELTA, the honorary forensic society.

There are healthy, active branches of both Y. M. C. A. and Y. W. C. A. among the students; also a Commercial Club, Science Club, Dramatic Club, and Schübert Club.

THE SUMMER TERM

For more than thirty years Grove City College has maintained a summer term in addition to the three regular terms of the college year.

REGULAR COLLEGE WORK. The courses offered in the summer term make it possible for a student to complete a college course in three years. These courses also appeal to men and women who are teaching and who are anxious to better prepare themselves for professional work. The same courses in music, arts, science and business are maintained as in other terms. The credit granted in the summer term is prorated to compare with the length of the term. The normal schedule is sixteen hours but carries only twelve hours credit.

SPECIAL WORK FOR TEACHERS. In addition to the courses offered during the regular year there will be maintained in the summer term, in practically all departments, courses of special interest to teachers.

THE STATE DEPARTMENT OF PUBLIC INSTRUCTION, in the future, requires teachers who have work above the sixth grade to be specially prepared in the subjects taught. Those

wishing to teach such subjects in grades above the sixth grade must have the equivalent of twelve semester hours of college credit in the field in which they expect to teach. Teachers now holding permanent certificates should plan to take work in college and prepare themselves to teach in the Junior and Senior High School.

BIBLE SCHOOL

In August the Grove City Bible School holds its session. The morning is confined to lectures on various topics of special interest to Clergymen and Christian laymen. The afternoon is devoted to the work of the Mission School, which is of great interest to all those in any way connected with religious work. The evening is devoted to preaching services.

The following speakers appeared on the program for 1922: The Reverend Henry C. Swearingen, D. D., of the House of Hope Presbyterian Church, St. Paul, Minnesota; Bishop Francis J. McConnell, D. D., of the Methodist Episcopal Church; Reverend Herbert Booth Smith, D. D., of the Immanuel Presbyterian Church of Los Angeles, California; Professor Henry E. Dosker, D. D., of the Louisville Theological Seminary; Professor J. Gresham Machen, D. D., of the Princeton Theological Seminary; Professor George M. Sleeth, Litt. D., of the Western Theological Seminary; Reverend A. L. Wylie, of India; Professor E. W. Koons, of Korea; Reverend W. T. Locke, of China; Reverend James G. Campbell, of Western India; Reverend Harry Farmer, D. D., of China.

HOSPITAL

A hospital is maintained in Grove City, where the sick of the college receive the best attention by trained nurses under the supervision of a competent superintendent. It has all the modern conveniences and appliances and has gained a very enviable reputation for the excellent care given to the patients in the Grove City Hospital, and the fine work done by the physicians and surgeons of the hospital staff.

The hospital expenses of the students are met through a special fund set apart for this purpose. In every case the hospital expenses up to maximum of \$40.00 (not medical fees) are met by the College.

REGULATIONS GOVERNING INTER-COLLEGIATE CONTESTS

Only collegiate students may represent the College on teams of recognized college organizations. Absences incurred by the student, while representing a recognized college organization, are not counted off his gratuity.

No student, who has failed in more than one subject during his preceding term in college, may represent the institution on collegiate organizations.

No student doing "E" or "F" grade work in more than one subject may represent the college on collegiate organizations.

No student may represent the college on any one recognized college organization more than four years.

The coach in charge of the team shall furnish the Secretary with an authorized list of team men, which list shall be read at the regular meeting of the Faculty preceding the contest.

ABSENCE REGULATIONS

A total gratuity of as many class absences a term as he has class recitations a week is allowed to each student.

The gratuity in each course a term is equal to the number of recitations in the course a week.

A gratuity of fifteen absences a term from Chapel is allowed to each student. Absence from Sunday Chapel is counted as three on the gratuity for Chapel.

This gratuity is granted the student to cover all absences for any reason whatever.

When a student exceeds his gratuity in any subject, he becomes subject to discipline.

Absences are counted from the first recitation in each course.

Absence from class affects the grade of the student for that course.

The Dean of the Faculty has control of the question of absences; all requests should be made to him at his regular office hours. Permissions for absences hold for one term only and are renewed only by application to the Dean each term.

All such requests for optional attendance at Chapel must be made to the Dean within one week of registration in college.

SELF HELP

Grove City College has endeavored to offer an education to men and women of moderate means. In the past, an exceptionally large number of students have during their college course earned all or a large portion of their expenses. The College endeavors in every way to assist students desiring self help. Many are given opportunities to wait on tables and to assist in other work around college buildings. The manufacturing and business interests of the town afford a number of places for ambitious men and women who are earning their way through college.

Each year a Silliman prize of \$50.00 is granted to the male student who shows unusual promise.

ROOMS AND BOARDING

The Colonial, Cunningham, and Pelton Halls—the ladies' dormitories—are under the immediate control of the Dean of Women, and are designed to provide comfortable and pleasant homes for young women. Students from out of town are required to room and board at the dormitories. The students' rooms are arranged mostly in suites of two with bath room for each suite. There are also some single rooms with bath. Each room is furnished for occupancy by two girls. Each girl furnishes her own towels and bed linen which are laundered by the College. The personal linen of each girl is laundered at her own expense.

Steps are being taken to add, during 1923, an imposing addition to the present Colonial. The plans call for the construction of two three-story wings, which will house from fifty to sixty young women, and a colonnade, or enclosed porch, twenty by one hundred feet. Each room will connect with a modern bath room. Each occupant will be provided with a large wardrobe. The construction will be modern and fire-proof throughout. The feature of the building will be the colonnade, part of which will be used to add to the dining room and the remainder for social purposes. In addition to the glass front, overhead lighting will be provided; the floor will be tile and an open fire place will be installed. In front of the colonnade there is to be an open terrace twelve by one hundred feet. The building will be ready for occupancy sometime during 1923.

Room and boarding at the Colonial for the twelve weeks sessions is \$111.00 for the term, two girls occupying a room. On the fourth floor the rate is reduced to \$102.00 a term, two girls occupying a room. On the fourth floor, three girls occupying one large room can be accommodated at \$102.00 for the term of twelve weeks. On lower floors where three occupy a room a charge of \$105.00 is made for the term of twelve weeks.

At the Pelton and Cunningham Cottages room and boarding is furnished at \$102.00 a term of twelve weeks, two occupying a room.

Memorial Hall, the dormitory for young men, was erected in 1914, equipped and furnished as a memorial to Joseph Newton Pew, who was for many years the President of the Board of Trustees of Grove City College and who had a very vital part in the development and growth of the institution. The building is located on high ground on the left bank of the creek, overlooks the campus and commands a view of the surrounding country. It is of thoroughly fire-proof construction throughout. The building is divided into five separate houses separated from each other by fire-walls.

There are accommodations for approximately one hundred and ten students. Several different and very attractive arrangements of rooms have been provided. In the end sections, there

are a number of large rooms for two students. Each room has two large wardrobes with shelves and plenty of hooks, and is located near a bath room. Each suite has a large study room with two or three single bedrooms and opens directly into a bath room.

The furnishings of the building received the special attention of the donors and the result is that in the furniture and equipment the building is believed to have no superior. The furniture is of solid fumed oak and is of the modified mission type. It is substantial and gives one the impression of permanence and elegance. The beds are enameled malleable iron and are fitted with the best grade of springs and mattresses. In each study room there are large desks with drawers for each student, desk chairs, a rocker, a most comfortable and especially designed couch, and also, what adds much to the appearance of the room, an open fireplace with a mantel.

The prices charged include rentals for room, furniture, with mattresses, pillows and blankets, janitor service, heat and light. Few colleges in the country are so liberal in their provisions. Students should provide bed-linen, towels, and comforts, and care for the same.

Room and boarding at Memorial Hall for the twelve weeks session is \$102.00 to \$114.00 per term. The rate for single rooms on the ground floor is \$102.00 two students in a room. The rate for single rooms on the other floors is \$105.00. In the second, third and fourth sections, suites of three rooms, occupied by two students, rent at a rate of \$114.00. In the first section there are suites of four rooms occupied by three students at the rate of \$114.00.

A fee of five dollars (\$5.00) will be charged for room reservations in the College dormitories. This fee may be applied on room rental or left with the College as a permanent reservation fee.

All students not from Grove City will be required to room and board in the College dormitories except when given permission by the proper college authorities.

The general control of Memorial Hall is in the hands of a student committee working under the advisory Committee of the Faculty. This committee is elected by the students residing at Memorial Hall from among their number. The committee has general charge of all questions of order and discipline, though the Faculty reserves the right to veto their actions.

TUITIONS

The tuition is forty dollars (\$40) for the term of twelve weeks and thirty dollars (\$30) for the summer term of nine weeks. This tuition entitles the student to any course in the college, to the use of the gymnasium, to entrance to all athletic contests and to care in the hospital in case of illness.

In the courses requiring laboratory practice, the student is charged a laboratory fee. In biology and physics, this fee is three dollars (\$3) in all courses requiring one laboratory period (2 to 2½ hours) a week; in chemistry the fee is five dollars (\$5) in all courses requiring one laboratory period. In courses in physics and biology requiring more than one laboratory period, an additional fee of two dollars (\$2) is charged for each additional period. In courses in chemistry requiring more than one laboratory period an additional fee of three dollars (\$3) is charged for each additional period. The fees are usually as follows: in biology, \$3 or \$5; in physics, \$3 or \$5; in chemistry, \$5 or \$8; in mechanical drawing, \$5; in surveying, \$3.

TABLE OF EXPENSES

Tuition	\$ 40.00
Special examination in any subject.....	1.00
Mechanical drawing	5.00
Surveying	3.00
Biology laboratory	\$ 3.00 or 5.00
Chemistry laboratory	5.00 or 8.00
Physics laboratory	3.00 or 5.00
Typewriting	5.00
Board and room at the Colonial, ladies, a term.....	102.00 to 111.00
Board and room at the Pelton or Cunningham, ladies, a term	102.00
Board and room at Memorial Hall, men, a term.....	102.00 to 114.00

All tuitions and other college bills are due at the opening of the term; students who have not paid these bills or arranged for their payment, will be excluded from classes after the first week of the term.

Boarding charges are dependent on the general price level of commodities and are therefore subject to change.

No registration or matriculation fee is charged; no entrance fee is charged to college athletic games.

A student voluntarily leaving college during the first four weeks of the term is refunded one-half of the tuition.

No deduction is made for absence the first two weeks or last two weeks of a term for any cause whatever. For absence two consecutive weeks or more on account of the student's personal sickness, one-half the boarding charges for the time lost will be refunded, provided the student's physician in attendance certifies that the illness was of such nature as to render his return to school impossible. The College provides for hospital care of students up to a maximum of \$40.00. No refund is made for any period for which the College has paid for hospital care.

No refunds on room charges are made to students leaving college during any term.

No refunds are made in case of students suspended or dismissed from college.

The necessary expenses per term of twelve weeks for men and women residing in dormitories are:

Tuition	\$ 40.00	\$ 40.00
Room and Boarding	102.00 to	114.00
Books about	12.00	12.00
<hr/>		
Total	\$154.00	\$166.00

THE ENTRANCE REQUIREMENTS

The requirement for admission to the Freshman class is fifteen units. A unit is the credit allowed for a subject pursued in daily recitations for the full year of at least 34 weeks. The maximum of four units is allowed for the regularly scheduled work of one year in a high school or other secondary school.

Fifteen units credit is equivalent to a full four-year course in a strong high school. Work of the regular four-year high school course cannot be accepted for advanced standing.

With the approval of the Committee on Admission and Instruction a student presenting at least nineteen units from high school may take special examination in units in excess of eighteen for the purpose of obtaining advanced standing. The Committee shall designate the subjects in which he may take examinations, specifying one subject in addition to the number in which examinations are permitted, thus allowing the applicant one option. Credit thus earned by examination will be granted at the rate of six hours for each unit in excess of eighteen.

A student who is deficient in any of the work prescribed for admission to one of the college courses may, with the consent of the Registrar, substitute other subjects to make a total of fifteen units, provided he take during his college course such subjects as will make up his deficiency.

Applicants for entrance to the course leading to the degree, Bachelor of Arts must present:

English	3	units
Mathematics	2½	units
Latin	4	units
Elective	5½	units

Applicants for entrance to the course leading to the degree, Bachelor of Literature must present:

English	3	units
Mathematics	2½	units
Language	4	units
Elective	5½	units

Applicants for entrance to the course leading to the degree, Bachelor of Science must present:

English	3	units
Mathematics	2½	units
Language	2	units
Science	2	units
Elective	5½	units

Applicants for entrance to the courses leading to the degrees, Bachelor of Commercial Science or Bachelor of Music must present:

English	3	units
Mathematics	2	units
Modern Language.....	2	units
Elective	8	units

Not less than one year's work in Bookkeeping, Shorthand, or Typewriting will be accepted for credit. The maximum credit allowed in these subjects is: Bookkeeping, 2 units; Shorthand, 2 units; Typewriting, 1 unit.

A student presenting a science with laboratory will be asked to present a certified laboratory note-book.

A student unable to carry work in a department to which his accepted units admit him, loses credit in all units up to the work he can carry.

Certificates must state clearly the following points:

1. The number of years at the institution.
2. The fact of graduation, if a graduate.
3. The subjects studied each year.
4. The text-book used in each subject.
5. The number of weeks devoted to each subject.
6. The number of periods per week for each subject.
7. The length of the period.
8. The grade received in each subject.

Blank forms will be furnished on application to the Registrar.

Students who have passed satisfactory examinations in the subjects required for entrance, are admitted as Freshmen.

A student who has had preparation in a subject but is unable to present a certificate showing the same will be asked to take examination in the subject and upon successfully passing this examination will be credited with the subject. In lieu of examination, the Committee on Admission and Instruction may require the applicant to take advanced courses in the same subject.

THE COLLEGE COURSES

All courses leading to the Baccalaureate Degree in Arts, Literature, Science, and Commercial Science, require one hundred and ninety-two hours of work beyond that necessary for entrance to the Freshman class. This requires four years work of forty-eight hours per year, or sixteen hours per term.

Students completing their work at the end of the Summer Term are graduated and receive their degrees at that time. Students completing their work at the end of the Fall or Winter Term are graduated and receive their degrees in person at the following Commencement.

Students who desire the College Provisional Certificate in order that they may teach in Pennsylvania must comply with the requirements of the State Department of Education. This may be done by taking 27 term hours (18 semester hours) in professional work as prescribed by the State. The requirement is met by 9 hours Practice Teaching and 18 hours in Introduction to Teaching, Educational Psychology, Special Methods, and an elective in the Department of Education.

Requirements in Hours for the Degrees

BACHELOR OF ARTS

ENGLISH—English 11, 12, 13 and Oratory 11, 12, 13.....	9 hours
English 21, 22, 23 or English 25, 26, 27.....	9 hours
LANGUAGE—Latin—2 year-courses	18 hours
Greek—2 year-courses	24 hours
MATHEMATICS—1 year-course	9 hours
BIBLE	12 hours
PSYCHOLOGY—Psychology 31, 32.....	6 hours
PHILOSOPHY	3 hours
HISTORY OR ECONOMICS—1 year-course	9 hours
SCIENCE—1 year-course	15 hours
(Physics required of all students not presenting it for entrance)	
PHYSICAL TRAINING	12 hours
ELECTIVE	66 hours

BACHELOR OF LITERATURE

ENGLISH—English 11, 12, 13 and Oratory 11, 12, 13.....	9 hours
English 21, 22, 23 or English 25, 26, 27.....	9 hours
LANGUAGE—4 year-courses in collegiate language *.....	36 hours
(2 year-courses must be in one modern language and 2 languages must be presented)	
MATHEMATICS—1 year-course	9 hours
BIBLE	12 hours
PSYCHOLOGY—Psychology 31, 32.....	6 hours
PHILOSOPHY	3 hours
HISTORY OR ECONOMICS—1 year-course.....	9 hours
SCIENCE—1 year-course	15 hours
(Physics required of all students not presenting it for entrance)	
PHYSICAL TRAINING	12 hours
ELECTIVE	72 hours

* French 11, 12, 13 and Spanish 11, 12, 13 may not be applied as meeting language requirements.

BACHELOR OF SCIENCE

ENGLISH—English 11, 12, 13 and Oratory 11, 12, 13.....	9 hours
English 21, 22, 23 or English 25, 26, 27.....	9 hours
LANGUAGE—1 year-course in collegiate language *.....	9 hours
MATHEMATICS—2 year-courses	18 hours
BIBLE	12 hours
PSYCHOLOGY—Psychology 31, 32.....	6 hours
PHILOSOPHY	3 hours
HISTORY OR ECONOMICS—1 year-course	9 hours
SCIENCE—4 year-courses	60 hours
(2 year-courses must be in one of the three sciences, Chemistry, Physics, Biology, and one year-course in each of the other two)	
PHYSICAL TRAINING	12 hours
ELECTIVE	45 hours

* French 11, 12, 13 and Spanish 11, 12, 13 may not be applied as meeting language requirements.

BACHELOR OF COMMERCIAL SCIENCE

ENGLISH—English 11, 12, 13 and Oratory 11, 12, 13.....	9 hours
English 21, 22, 23 or English 25, 26, 27.....	9 hours
LANGUAGE—2 year-courses in collegiate modern language.....	18 hours
BIBLE	12 hours
ECONOMICS—Economics 31, 32, 33.....	9 hours
ACCOUNTING—2 year-courses	18 hours
COMMERCE AND BUSINESS ADMINISTRATION—	
3 year-courses	27 hours
AMERICAN HISTORY—1 year-course	9 hours
SCIENCE—1 year-course (Chem. B, 36, A).....	9 hours
PHYSICAL TRAINING	12 hours
ELECTIVE *	60 hours

* 21 hours of the elective must be selected in the field of Commerce.

Plan of Course for the Degree of Bachelor of Arts

FRESHMAN YEAR

English 11, 12, 13 and	
Oratory 11, 12, 13.....	9 hours
Latin 11, 12, 13.....	9 hours
Greek 11, 12, 13.....	15 hours
Mathematics	9 hours
Physical Training	3 hours
Elective	3 hours

JUNIOR YEAR

English	9 hours
Psychology	6 hours
Philosophy	3 hours
Bible	3 hours
Economics or History.....	9 hours
Physical Training	3 hours
Elective	15 hours

SOPHOMORE YEAR

Latin	9 hours
Greek	9 hours
Science	15 hours
Bible	9 hours
Physical Training	3 hours
Elective	3 hours

SENIOR YEAR

Physical Training	3 hours
Elective	45 hours

Plan of Course for the Degree of Bachelor of Literature

FRESHMAN YEAR

English 11, 12, 13 and	
Oratory 11, 12, 13.....	9 hours
Language	18 hours
Mathematics	9 hours
Bible	9 hours
Physical Training	3 hours

JUNIOR YEAR

Language	9 hours
History or Economics.....	9 hours
Philosophy	3 hours
Physical Training	3 hours
Elective	24 hours

SOPHOMORE YEAR

Language	9 hours
English	9 hours
Science	15 hours
Psychology	6 hours
Bible	3 hours
Physical Training	3 hours
Elective	3 hours

SENIOR YEAR

Physical Training	3 hours
Elective	45 hours

Plan of Course for the Degree of Bachelor of Science

FRESHMAN YEAR

English 11, 12, 13 and	
Oratory 11, 12, 13.....	9 hours
Language	9 hours
Science	15 hours
Mathematics	9 hours
Physical Training	3 hours
Elective	3 hours

JUNIOR YEAR

English	9 hours
Science	15 hours
Psychology	6 hours
Bible	6 hours
History or Economics.....	9 hours
Physical Training	3 hours

SOPHOMORE YEAR

Mathematics	9 hours
Science	30 hours
Bible	6 hours
Physical Training	3 hours

SENIOR YEAR

Philosophy	3 hours
Physical Training	3 hours
Elective	42 hours

BACHELOR OF COMMERCIAL SCIENCE

The purpose of the College in offering a Course in Commerce is to give to the student who is preparing for a business career or to a teacher in a commercial high school, a training which embodies not only the essential technical courses needed by the business man or business woman but also to afford the student a general cultural education which will fit him to occupy a large place in the life of his community. The course, as outlined, offers a certain amount of elective privilege which will be distributed among those subjects in which the student is most vitally interested. It is also possible to modify the course in minor details where it is found desirable. Such modifications should be made in consultation with the Registrar.

The course covers four years. Entrants are required to have a four-year high school course or the equivalent. The degree of Bachelor of Commercial Science is granted upon the satisfactory completion of the work.

Plan of Course for the Degree of Bachelor of Commercial Science

FRESHMAN YEAR

English 11, 12, 13 and	
Oratory 11, 12, 13.....	9 hours
Accounting	9 hours
Science	9 hours
American History	9 hours
Language	9 hours
Physical Training	3 hours

JUNIOR YEAR

Economics 31, 32, 33.....	9 hours
Business Ad. 31, 32, 33.....	9 hours
Bible	3 hours
Physical Training	3 hours
Elective	24 hours

21 hours of the elective must be selected in the field of Commerce.

SOPHOMORE YEAR

English	9 hours
• Accounting	9 hours
Commerce 21, 22, 23.....	9 hours
Language	9 hours
Bible	9 hours
Physical Training	3 hours

SENIOR YEAR

Physical Training	3 hours
Business Ad. 41, 42, 43.....	9 hours
Elective	36 hours

SUGGESTED ELECTIONS

Commercial Teachers: Shorthand and Typewriting, Psychology and Education, Statistics.

Students Preparing to Enter Manufacturing Business: Statistics, Industrial Management, Labor Problems, Employment Man-

agement, Credit, Investments, Cost Accounting, Correspondence, Advertising, Salesmanship, Physics, Mechanical Drawing, Government, Marketing.

Accountants: Applied Accounting, Cost Accounting, Statistics, Mathematics of Business, College Algebra, Correspondence, Investments, Credit, Foreign Exchange.

Students Preparing to Enter Foreign Trade or Consular Work: Statistics, Government, Sociology, Advertising, Salesmanship, Correspondence, additional work in Foreign Language, Foreign Trade, Foreign Exchange, Transportation, Ocean Transportation, Credit, History, Marketing.

Social Workers: Government, Sociology, Psychology, Statistics, Advertising, Correspondence, Shorthand and Typewriting, Labor Problems.

Private Secretaries: Shorthand and Typewriting, Statistics, Correspondence, Sociology, Psychology.

Students Preparing to Enter Banking or Insurance Business: Statistics, Money and Banking, Credit, Investments, Correspondence, Advertising, Salesmanship, Foreign Exchange, Business Mathematics.

Students Preparing to Enter Mercantile Business: Statistics, Advertising, Salesmanship, Retailing, Transportation, Credit, Money and Banking, Investments, Correspondence, Marketing, Psychology, Drawing.

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

In the past ten years there has been a very marked growth in the application of scientific thought to the commercial and industrial life of the Nation. This application has been much intensified under the stress of war conditions. In no other line of science has this development been more rapid than in the field of Chemistry. The College has arranged the following course leading to the degree of Bachelor of Science in Chemical Engineering with the view of equipping the graduates to take positions requiring a knowledge of the industrial applications of chemistry.

The advantage of taking such specialized work in the cultural atmosphere of a college rather than in the intensely practical atmosphere of a technical school cannot be overestimated.

Plan of Chemical Engineering Course

FRESHMAN YEAR

General Chemistry	15 hours
General Physics	15 hours
Mathematics	6 hours
Mechanical Drawing	3 hours
Language	9 hours

JUNIOR YEAR

Advanced Physics	12 hours
Physical Chemistry	15 hours
Industrial Chemistry	9 hours
Bible	9 hours
Psychology	6 hours
Philosophy	3 hours

SOPHOMORE YEAR

Qualitative and Quantitative Analysis	15 hours
Advanced Mathematics.....	9 hours
Organic Chemistry.....	15 hours
English 11, 12, 13 and Oratory 11, 12, 13.....	9 hours
Geology	5 hours

SENIOR YEAR

Food Chemistry and Organic Analysis	10 hours
English	9 hours
Advanced Physics Laboratory	4 hours
Bible	3 hours
Bacteriology	5 hours
Research Chemistry	15 hours

PRE-MEDICAL REQUIREMENTS

For those intending to enter Medical Schools, the College offers opportunities for receiving instruction to meet the requirements of the best schools, and the strongest state boards of control of medical certification. The state board of Pennsylvania and of many other states require one year's credit in work of collegiate grade in each of the three sciences, biology, chemistry, and physics. At least two recitation and two laboratory periods a week are required in each of the sciences. The Medical Colleges in Pennsylvania require in addition to the above work in the sciences, English, psychology, modern language, and advanced chemistry sufficient to make a total of two years of college work. Medical school requirements are met by the two-year course outlined in the following plan:

Plan of Pre-Medical Course

FRESHMAN YEAR

General Chemistry	15 hours
Biology & Zoology.....	15 hours
English 11, 12, 13 and Oratory 11, 12, 13.....	9 hours
Mathematics	9 hours

SOPHOMORE YEAR

Organic Chemistry	15 hours
Physics	15 hours
Modern Language	9 hours
Psychology	6 hours
Philosophy	3 hours

TWO-YEAR SECRETARIAL COURSE

For students who find it impossible to spend four years in College a two-year course, which places special emphasis on clerical subjects, is outlined. The course is designed for students who are preparing for secretarial or business careers. Those who plan to teach commercial subjects are encouraged to take the four-year course in commerce. The two-year course as outlined is simply a suggestive course. It may be varied to meet the needs and preparation of the particular student. No formal recognition or diploma is granted on the completion of the course.

In character, the course is designed to give the student a thorough knowledge of the principles of bookkeeping, of stenography and typewriting, and of allied subjects. During the first year special emphasis will be placed on the technical side of the work. Moreover, the student will receive a thorough drill not only in Business English and Business Correspondence, but will have the advantage of receiving throughout both years a college course in English. The importance of such courses can hardly be over estimated. They should give the student not only a knowledge of the technique of the language but also an appreciation of good English and the ability to use the mother tongue correctly.

During the second year thorough courses in Commercial Law and Commercial Geography, in addition to the course in college English, may be introduced to widen the student's knowledge and to give him training in those subjects which are essential in modern business.

Plan of a Two-Year Secretarial Course

FRESHMAN YEAR

English 11, 12, 13 and	
Oratory 11, 12, 13.....	9 hours
Secretarial 1, 2, 3.....	15 hours
Accounting	9 hours
Stenography	15 hours
Typewriting	15 hours
Physical Training	3 hours

SOPHOMORE YEAR

English	9 hours
Accounting	9 hours
Stenography	15 hours
Typewriting	15 hours
Commerce & Business	
Administration	9 hours
Physical Training	3 hours

GRADE VALUES

The grade values used in rating the quality of work are:
A, 95 to 100 per cent.; B, 90 to 95 per cent.; C, 80 to 90 per

cent.; D, 70 to 80 per cent.; E, 50 to 70 per cent., conditioned; F, below 50 per cent., failure; P, passed without rank. "A" and "B" are considered honor grades. Failure to take the final examination at the end of a course, or, in any other way to complete the work of a course, causes that course to be graded "E." In a course requiring laboratory practice, incomplete laboratory work or unapproved laboratory reports cause that course to be graded "E."

A student who receives a condition, "E," in a subject has the opportunity of taking a special examination in this subject during his next succeeding term in college and on passing such special examination is graded "P" (passed). These special examinations are held according to a schedule published during the first week of the term. If the condition is not removed at the end of such next succeeding term, the mark of condition "E" is considered as a mark of failure, "F."

All "E" and "F" grades in a student's record must be removed by special examination or repetition of courses before a degree is conferred upon the student. A student whose record shows continued unsatisfactory work may at any time be dropped from the rolls of the College.

STUDENT PROGRAMS

The regular program of work requires sixteen hours a term and, in general, a student in the regular courses is not permitted to take a schedule of more than sixteen hours.

A student, two-thirds of whose credits for each of two successive terms have been of honor grade is entitled to a schedule of 17, 18 or 19 hours credit. Failure to maintain the proportion of two-thirds honor grades for a schedule of 17, 18 or 19 hours makes it necessary for the student to return to the sixteen hour schedule. "E" or "F" grade causes the term in which such grade is received to be excluded from consideration for schedules beyond sixteen hours.

If a student has for two successive terms carried a schedule of 18 or 19 hours with all honor grades, he may apply to the

Registrar for the privilege of taking 20 or 21 hours. Twenty-one hours is the limit of credit allowed for a term. If a student who is taking 20 or 21 hours falls below honor grade in more than one-third of his work for that term, he must return to the sixteen hour schedule; if he falls below honor grade in any work which is less than one-third of his schedule, he may be required to return to the sixteen hour schedule, but must return to the nineteen hour schedule. "E" or "F" grade causes the term in which such grade is received to be excluded from consideration for schedules beyond sixteen hours.

The minimum schedule which any regularly enrolled student may take is twelve hours.

ADVANCED STANDING

A student who applies for advanced standing at this college on the basis of credits from another college may receive credit on a college course up to sixteen (16) hours a term or forty-eight (48) hours a year. If during his next two terms at Grove City College he has done work of a grade entitling him under the rules to an increment of schedule hours, the Committee on Admission may, at its option, grant him a corresponding increment of credit for work done at the college from which he came, the credit granted for the work at the other college in no case exceeds twenty-one (21) hours a term, or sixty-three (63) hours a year. Each semester hour at a college is considered as one and one-half ($1\frac{1}{2}$) term hours.

GENERAL HONORS

On graduation the student whose work meets the requirements stated in the following paragraphs is granted his degree with honors.

A student whose grades average from 93% to 96% is eligible to honors on graduation and, unless the Faculty rules otherwise, receives the honor "cum laude."

A student whose grades average from 96% to 97.5% is recommended to the Faculty for the honor "magna cum laude."

A student whose grades average 97.5% may be recommended to the Faculty for the honor "summa cum laude."

In reckoning these values, A equals 97.5, B equals 92.5, C equals 85., D equals 75., P equals 70.

HONORABLE MENTION

Honorable Mention may be granted to the student who has completed with honor grades a minimum of four year-courses of collegiate grade in any one field.

SPECIAL HONORS

Special Honors may be granted to the student who has completed with honor grades a minimum of six year-courses of collegiate grade in any one field.

It is at the discretion of the professor to conduct seminars in the chosen field or to substitute research work for regular classroom exercises in advanced courses.

GRADUATE DEGREES

REQUIREMENTS FOR THE MASTERS DEGREE

The possession of baccalaureate degree (A. B., Litt. B., Ph. B., or B. S.) or what the Committee on Advanced Degrees regard as the equivalent, is essential.

Every candidate, when admitted and before entering on the course of study, is required to pay a matriculation fee of \$5.00.

Each candidate for the degree is required to complete 45 term hours of advanced work in residence. A minimum of 9 term hours must be taken in one department outside the department of the candidate's major work. All courses are to be chosen in consultation with, and with the consent of the Registrar and the head of the department in which the candidate's major work is taken. Any course may be elaborated by assigned reading or research work.

The work of the candidate may not fall below honor rank (A or B). In case the candidate's work falls below this standard the Committee on Advanced Degrees, in consultation with the head of the department in which the candidate is majoring, may assign additional work or may require the candidate to abandon the course.

A thesis on a subject growing out of the candidate's major course of study is required. The amount of credit allowed for the thesis shall be decided by the Committee on Advanced Degrees. This credit is counted as a part of the total requirement of 45 term hours. The subject for the thesis and the candidate's whole plan of work must be approved by the Committee on Advanced Degrees before the end of the candidate's first term in residence. The thesis must manifest ability to do independent work and to judge the relative values of various sources of information. The thesis is to be typewritten with black record ribbon.

double space, on good quality paper of letter size, 8½x11 inches. There is to be a margin of 1½ inches at the left hand edge and 1 inch on the other three sides. When submitted, the thesis becomes the property of the College. It is to be submitted not later than April 20th of the year in which the candidate comes up for degree. After this has been accepted the candidate may be asked to present himself for final examination.

When the thesis has been accepted the candidate is required to pay a diploma fee of \$10.00. When all requirements have been met, he is recommended for the Master's degree which is conferred upon him in person at the following Commencement.

DEPARTMENTS OF INSTRUCTION

On the following pages is given an account of the work done in each course in the various departments. The courses are numbered as follows: Freshman courses, 11 to 19; Sophomore courses, 21 to 29; Junior courses, 31 to 39; Senior courses, 41 to 49; Graduate courses above 50. The courses are regularly taught as follows: In the fall term, courses 11, 15, 21, 25, 31, 35, 41, 51, 55; in the winter term, courses 12, 16, 22, 26, 32, 36, 42, 46, 52, 56; in the spring term, courses 13, 17, 23, 27, 33, 37, 43, 47, 53, 57; in the summer term, courses 14, 18, 24, 28, 34, 38, 44, 48, 54, 58. Some courses are repeated other terms; this is particularly true in the summer term.

DEPARTMENT OF PHILOSOPHY AND BIBLE

President Ketler, Professor Reagle

Term Courses

PHILOSOPHY 33. Logic: An elementary course in the forms of reasoned thinking, both deductive and inductive; lectures and recitations illustrated by numerous examples in logical praxis. Text-book: Creighton's Introductory Logic. Prerequisite: Psychology 31 and 32. Credit, 3 hours.

PHILOSOPHY 41. Introduction to Philosophy: An historical approach to the problems of metaphysics and epistemology. Text-book: Leighton's The Field of Philosophy. Taught in 1923-24. Credit, 3 hours.

PHILOSOPHY 43. Ethics: A constructive study of ethical theory with an account of its philosophical basis, and a review of the great historical systems. Text-book: D'Arcy's Ethics. Prerequisite: Psychology 32. Credit, 3 hours.

PHILOSOPHY 45. History of Philosophy: A study of the Greek Medieval periods in philosophy, including a survey of the Pre-Socratic and Socratic Schools; an examination of Stoicism, Epicureanism, and Scepticism, and a study of Neo-Platonism and the Scholasticism of the early Christian Fathers. Text-book and additional readings. Taught in 1924-25. Credit, 3 hours.

PHILOSOPHY 46. History of Philosophy: A study of the modern philosophers beginning with Descartes and including the principal philosophers of the French, English and German Schools. A portion of the time may be devoted to contemporary leaders of philosophic thought. Text-book and additional readings. Taught in 1924-25. Credit, 3 hours.

BIBLE**Term Courses**

BIBLE 21. Old Testament History: The Hebrew Patriarchs and the early Founders of the Nation: a study of the books from Genesis to Ruth in the light of corroborative testimony from other sources. Credit, 3 hours.

BIBLE 22. Old Testament History: The United Kingdom and the Divided Kingdom to the Exile; also an analysis of the Pre-Exilic prophecies with their historic settings. Credit, 3 hours.

BIBLE 23. Old Testament History: From the Babylonian Exile to the destruction of Jewish Nationality; a study of Ezra and Nehemiah and the Later Prophets. Sanders' History of the Hebrews is used as a companion volume throughout the year. Credit, 3 hours.

BIBLE 24. Hebrew Wisdom Literature: A general introduction to the works of the Hebrew Sages and Poets with a special study of Job. (Taught as required.) Credit, 2 hours.

BIBLE 31. The Life of Christ. Text-books: Stevens and Burton's Harmony of the Gospels and Rhees' Life of Jesus of Nazareth. Credit, 3 hours.

BIBLE 32. The Apostolic Church: A study of the Book of Acts together with the historical setting of the New Testament Epistles. Credit, 3 hours.

BIBLE 33. A study of the Pauline Epistles with more detailed study of the Epistle to the Romans and the Book of Hebrews. Credit, 3 hours.

BIBLE 34. A History of the English Bible and the Bible in the making. Taught in summer terms only. Credit, 3 hours.

BIBLE 37. The Philosophy of the Christian Religion: A study of Christianity and the religions of the world historically investigated and philosophically construed with a purpose "to give a reason for the faith that is within us;" to learn the quest of man after God, and the quest of God after man. Text-book: Fairbairn: The Philosophy of the Christian Religion. Taught in 1923-24. Credit, 3 hours.

DEPARTMENT OF PSYCHOLOGY AND EDUCATION

Professor Platt

PSYCHOLOGY

Term Courses

PSYCHOLOGY 31. General Psychology, first term: An introduction to the procedure of psychology, the nature of consciousness, the relationship between consciousness and the nervous system, and the process of sensation-perception. This course provides the foundation for the work of Psychology 32.

Credit, 3 hours.

PSYCHOLOGY 32. General Psychology, second term: A course presenting a consideration of memory and imagination, the ideational processes, the feelings, will, and the various dynamic phases of consciousness. A detailed study of the reactions of environment, suggestion, and inclination is made. After completing Psychology 32, a student should not only be able to understand the customary reactions to the extra-mental world, but should be able to analyze motives and reactions in such a way as to make practical application of this knowledge to his own life. Prerequisite: Psychology 31.

Credit, 3 hours.

PSYCHOLOGY 33. Genetic Psychology: A study of the beginnings and growth of mental life, tracing the types of adaptive activity or intelligence through the physiological, sensory-motor, representative, and conceptual stages. Students preparing to teach should avail themselves of this course in order to better understand the mental life of the pupils under their care. Prerequisite: Psychology 32.

Credit, 2 hours.

PSYCHOLOGY 36. Social Psychology: A study of the nature of the social mind, the influence of the individual on the group and

the influence of the group on the individual. This course is particularly valuable to prospective teachers, ministers, and lawyers. Prerequisite: Psychology 32. Credit, 2 hours.

PSYCHOLOGY 37. Educational Psychology: A consideration of those aspects of psychology which form the basis for rational education, and to show their practical application to the problems of the schoolroom. Prerequisite: Psychology 32.

Credit, 3 hours.

PSYCHOLOGY 47. Abnormal Psychology: A course dealing primarily with diseased and abnormal mentality, but considers also many of the unusual phases of normal mental life. It ranges in its interests from the absent-mindedness of every day life to the phenomena of hysteria and multiple personality. Prospective physicians and lawyers as well as teachers should find this course of value. Prerequisite: Psychology 32.

Credit, 2 hours.

EDUCATION

EDUCATION 31. History of Education, first term: A study of the great educational periods and tendencies of history beginning with education as a non-progressive adjustment as found among the primitive races and tracing the development of educational content and method to the close of the Reformation.

Credit, 3 hours.

EDUCATION 32. History of Education, second term: A course taking up the realistic conception of education, and from that as a starting point a critical study of the various educational movements is made. Prerequisite: Education 31.

Credit, 3 hours.

EDUCATION 33. School Administration: A course intended particularly for teachers or prospective teachers who expect to make teaching their life work. The organization of courses, the routine of administrative work, and the management of the school plant are taken up and subjected to detailed study. Numerous specific problems which arise in the administering of school affairs are discussed in conference and probable solutions worked out.

Credit, 3 hours.

EDUCATION 35. Introduction to Teaching. This course attempts a general survey of the field of teaching. Preparation of lessons, problems of discipline, general problems of administration and such other considerations that may be essential as a preliminary to the work of teaching. Credit, 3 hours.

EDUCATION 36. Introduction to Teaching. This course is a continuation of Education 35. Credit, 3 hours.

EDUCATION 37. Secondary Education: A study of the special problems characteristic of the high school, and an application of the methods of teaching to high school subjects. Adolescence is studied in its relation to the learning process, and in its relation to the interests peculiar to this period of life.

Credit, 3 hours.

EDUCATION 41. Principles of Education: A consideration of the bases, aims, values, and essential content of education; principles underlying the administration of the curriculum; the agencies that educate; and a review of the fundamental psychological principles that a teacher should understand. Credit, 2 hours.

EDUCATION 42. Philosophy of Education: A philosophical consideration of education in the light of what is known of biology, sociology, and psychology. No teacher is thoroughly prepared for the teaching profession who has not studied and reflected upon the subject of education in these connections. Such a course of study should give teachers a new and deeper understanding of the inner significance of education as an agency of human development.

Credit, 2 hours.

EDUCATION 43. General Methods: A study of the principles underlying the process of learning, together with methods of directing and assisting others in the learning process. If a teacher understands the broad, general principles upon which teaching is builded, he may apply these principles to the special subjects which he may be called upon to teach. Prospective teachers should avail themselves of this course. Credit, 2 hours.

EDUCATION 45. Educational Sociology: A consideration of the individual and society as the two fundamental elements in the educational process, and their relations and the part each plays

in the common life-process. Teachers should understand the means that education employs in utilizing the powers and capacities of the individual to fit him in the social system of which he is a part. Credit, 2 hours.

EDUCATION 46. Educational Measurements. A general examination of the various systems of educational measurements is made as well as a detailed study of a few of these systems. Such a course should prepare teachers to evaluate the capabilities and progress of pupils much more accurately than can be done by means of the traditional methods of grading. Credit, 2 hours.

EDUCATION 49. Education of the Exceptional Child. The purpose of this course is to give an insight into what the problem of the exceptional child may be. It is concerned with the educational procedure, but the character of the human material which is to be educated plays a fundamental part. Thus, questions of heredity and family history, of environment and social-economic conditions, of child hygiene and public sanitation, and numerous other elements are considered. Having completed a course of this kind, teachers will be better prepared to deal with children under their care who may deviate from the normal. Credit, 2 hours.

DEPARTMENT OF HISTORY AND POLITICS

Professor Shockley

HISTORY

Term Courses

HISTORY 11. Ancient Civilization: Egypt, Assyria, Mesopotamia, Babylonia, Persia, Hebrew nation, etc., up to the time of the rise of the Greeks: Greece and the eastern nations of its period; Persian invasions; Periclean Age with its galaxy of great men; social, religious, industrial, literary and artistic development; struggle between Athens and Sparta; rise of Alexander and the fall of the Athenian Empire; brief survey of history of Greece from 1821 down to the present time, showing how the nation has again taken its place among the nations of Europe. Taught in 1924-25. Credit, 3 hours.

HISTORY 12. Roman Kingdom and Republic up to the beginning of the Empire: Early beginnings of Rome and the period of the legendary kings; steps by which Rome gradually became mistress of the world; study of those elements of civilization which gave Rome her leadership, ideas of government, a flexible language, industrial and social conditions, art, literature, etc. Taught in 1924-25. Credit, 3 hours.

HISTORY 13. Roman Empire: A continuation of History 12. Emphasis is placed on conditions of the world at the time of the beginning of the Christian era; conditions favorable to the establishment of the Empire; additional territorial conquests and their effect on the Empire; coming of the barbarians and the fall of the Empire in 476; special study on the rise and growth of Christianity. Taught in 1924-25. Credit, 3 hours.

HISTORY 21. American History: From the beginning up to the close of the Revolutionary War: period of discovery and

exploration; the colonial development closing with 1732; period of inter-colonial wars and the struggle which expelled France from America; causes and general events of the Revolution; Articles of Confederation. Taught in 1924-25. Credit, 3 hours.

HISTORY 22. American History: A continuation of History 21 through the Reconstruction period after the close of the Civil War; study of the great factors in our early history, political parties, finances, tariff, industrial development, western movement, canals and railroads, slavery, Civil War and the Reconstruction period. Taught in 1924-25. Credit, 3 hours.

HISTORY 23. American History: Rise of new political parties; tariff and monetary changes; trusts and monopolies and their control; the panics of 1873, 1893, and 1907; Spanish-American War and subsequent history of Cuba, Porto Rico and the Philippines; new issues before the nation since 1900; the World War. Taught in 1924-25. Credit, 3 hours.

HISTORY 25. Financial History of the United States: A survey of the general economic and financial conditions of the country prior to 1789, with special attention to the Revolutionary period; Hamilton's financial plan and the subsequent history of the United States bank; general study of problems of taxation, tariff, public debt, commerce, and all problems connected with the financial side of our nation's history. Taught in 1923-24.

Credit, 3 hours.

HISTORY 26. Modern Problems in United States History: A study of twenty-five of the most important problems facing the American people today. Among them will be such problems as labor, immigration, negro, suffrage, state rights, prohibition, education, international relations, tariff, taxation, merit system, socialism and kindred movements, political parties, extension of federal supervision, jury system, municipal government, crime and correction, rural life, welfare legislation, and other subjects which may be of current interest. Taught in 1923-24.

Credit, 3 hours.

HISTORY 27. Teaching of History: This course is designed for those who wish to teach in the high schools of the state. Using the new outline of history and the social sciences prepared by the

State Department of Education as the basis for the course, a series of type lessons embodying both content matter and presentation methods will constitute the main feature of the course. The work will cover both American and European history. Taught in Summer Terms and in 1923-24. Credit, 3 hours.

HISTORY 31. European History: Beginning with the downfall of the Roman Empire and rapidly surveying the period up to the time of Charlemagne; the formation of new states out of the old Roman Empire; the part which the Church played in re-establishing civilization; the rise and spread of Mohammedanism; the Crusades; Feudalism and Chivalry; Renaissance and Reformation. Taught in 1923-24. Credit, 3 hours.

HISTORY 32. European History: A continuation of History 31 dealing with the foundation of the principal countries of modern Europe; the religious wars of the Middle Ages; special attention to England, France, Germany, and Spain, with the part the Church played in the growth of these countries; discovery of America and its effect on Europe; inventions and discoveries which brought on great industrial, social and governmental changes; French Revolution and its effect on the rest of Europe. Taught in 1923-24. Credit, 3 hours.

HISTORY 33. European History: Modern Europe. A survey of the changes forced on the dynasties of Europe as a result of the French Revolution; rise of democracy and nationalism; the formation of the newer European states, Germany, Italy, Russia, Belgium, Holland, Norway, Sweden, Denmark, etc.; the expulsion of the Turk from Europe and the freeing of Greece, Serbia, Roumania, Bulgaria, Montenegro, and Albania from Mohammedan domination; the World War and new Europe. Taught in 1923-24. Credit, 3 hours.

HISTORY 41. English History: Brief survey from the beginning up to 1485; successive invasions of the Romans, Anglo-Saxons, Danes, and Normans, with their effects on the history of the island; introduction of Christianity, of new ideas of government, of a new language; Hundred Year's War and the Wars of the Roses, closing with the incoming of the Tudor dynasty. Taught in 1923-24. Credit, 3 hours.

HISTORY 42. English History, 1485-1760: Reformation in England and the establishment of the Episcopal church; the Age of Elizabeth; Puritan Revolution and its effects; settlement of America and relations developed between England and her colonial possessions; growth of parliament and the beginning of political parties; relations with France and Scotland; foreign wars. Taught in 1923-24. Credit, 3 hours.

HISTORY 43. English History, since 1760: American Revolution; England's part in the French Revolution; economic and industrial development; reforms in parliamentary representation and growth in the power of Commons; colonial development, with survey of the facts connected with the acquisition of Canada, Australia, India, and other possessions; part in the World War. Taught in 1923-24. Credit, 3 hours.

HISTORY 45. French History, to the French Revolution: Conquest of Gaul by Caesar; development of the early kingdom by Clovis, and the introduction of Christianity; Mayors of the Palace and the Do-Nothing Kings; invasion of the Mohammedans; Charlemagne and the revival of the Roman Empire, followed by the rapid dissolution; beginnings of the modern states of France, Germany and Italy; relations with the Church; development of nationalism following the Crusades and the Hundred Year's War with England; growth of the idea of an Absolute Monarch leading to the Revolution at the close of the 18th century; relations with America and England; conditions at the opening of the French Revolution. Taught in 1924-25. Credit, 3 hours.

HISTORY 46. French History, 1789 to the present time: The Revolution and its results; the several changes in constitutions, rulers, and forms of government since 1815; relations with Italy and Austria, with an account of the Crimean War; Franco-Prussian War of 1870; colonial development in Asia and Africa; development between 1870 and 1914; World War and present day conditions. Taught in 1924-25. Credit, 3 hours.

HISTORY 47. History of the World since 1914: Conditions in Europe bringing on the World War; the struggle of 1914-1918; negotiations at Versailles resulting in the treaty and the Covenant of the League of Nations; the creation of the many new

nations and a general survey of each and their role in the future of the world's history; conditions of the World today, and a summary of the problems which confront it; "Salvaging of Civilization." Taught in 1924-25. Credit, 3 hours.

POLITICAL SCIENCE

POLITICAL SCIENCE 31. American Government and Politics: A general survey of the principles underlying our federal, state, and local system of government, with practical application to the current problems of today; development of political ideas and ideals as shown by the changes in our methods of administering government since 1789. Taught in 1924-25. Credit, 3 hours.

POLITICAL SCIENCE 32. American Government and Politics: A continuation of Political Science 31 with a survey of political parties and new developments in state and city administration; special consideration of the organization and work of the government of Pennsylvania, and of all questions which should interest the future citizen of the United States. Taught in 1924-25. Credit, 3 hours.

POLITICAL SCIENCE 33. A continuation of Political Science 31 and 32. Taught in 1924-25. Credit, 3 hours.

POLITICAL SCIENCE 35. Political Science: An advanced course open only to those who have had the introductory course or its equivalent. A survey of political theories from the days of Aristotle down to the present time, showing how we have developed the idea of a government "of the people, by the people, and for the people." Taught in 1923-24. Credit, 3 hours.

POLITICAL SCIENCE 36. Political Science: A study of the governments of Modern Europe. Twelve new governments have come into existence since 1919 and old governments have in several instances radically changed their instruments of government. Taught in 1923-24. Credit, 3 hours.

POLITICAL SCIENCE 37. Political Science: A continuation of Political Science 36. In addition to the governments of European countries, a review will be made of the remaining governments of the world including Japan, China, Liberia and Abyssinia in Africa, and the twenty-one Spanish-speaking republics in the New World. Taught in 1923-24. Credit, 3 hours.

SOCIOLOGY

SOCIOLOGY 41. Sociology: Definition of the field to be studied; factors determining the society in which we live; social effects of the country, city, poverty, wealth, etc.; general survey of the elementary principles which underlie the field of sociology. Taught in 1924-25. Credit, 3 hours.

SOCIOLOGY 42. Sociology: A continuation of Sociology 41 with a study of the problems of charity and phases of welfare work in all the multitude of forms which it now assumes; problems of the dependent, defective, and delinquent. Taught in 1924-25.

Credit, 3 hours.

SOCIOLOGY 43. Sociology: A continuation of Sociology 42 showing the relation of the family, school, church, state, and society in general toward sociological problems; private or government control of society; detailed study of charitable, penal, and correctional institutions of Pennsylvania showing how the state cares for its poor, blind, deaf, dumb, maimed, diseased, insane, feeble-minded, epileptic, incorrigibles, criminals, etc. Taught in 1924-25.

Credit, 3 hours.

SOCIOLOGY 45. Sociology: This course deals with the family. It is an intensive study of the growth of this institution from the dawn of history down to the present time, with special reference to the problems of the American family of today. Open to seniors and those who have had Sociology 41, 42, 43. Taught in 1923-24.

Credit, 3 hours.

SOCIOLOGY 46. Sociology: A general survey of all those problems dealing with delinquents, dependents and defectives. Special attention will be given to the methods of handling these groups by the state of Pennsylvania. Prerequisite: same as Sociology 45. Taught in 1923-24.

Credit, 3 hours.

SOCIOLOGY 47. Sociology: This course deals with modern Welfare Work, both federal and state. It touches upon a wide variety of problems dealing with our modern civilization. An effort is made to correlate all the material which has been given in the previous courses in Sociology. Prerequisite: same as Sociology 45. Taught in 1923-24.

Credit, 3 hours.

DEPARTMENT OF ENGLISH

English: Professor McEuen, Professor Burrowes
Oratory: Miss Griffin

ENGLISH

Term Courses

ENGLISH 11.* English Composition: A systematic exposition of the principles of composition including a thorough review of sentence structure, punctuation, etc. Exercises are given in written composition, with criticism and individual conferences.

Credit, 2 hours.

ENGLISH 12.* English composition: A continuation of English 11 with particular emphasis on the study of paragraph structure.

Credit, 2 hours.

ENGLISH 13.* English Composition: A continuation of English 11 and 12 through a study of literary types.

Credit, 2 hours.

ENGLISH 14. English Composition: A review of the principles of composition, sentence structure, punctuation, etc. Exercises are given in written composition, with criticism and individual conferences. Taught in the summer term only.

Credit, 3 hours.

ENGLISH 19. History of the Language: A study of the development of English speech, with special attention to pronunciation, word-formation, and grammatical structure. The work will conclude with a brief survey of present laws of sentence structure. The course is of general cultural interest, but is designed especially for those who wish to teach English language or composition. Taught in summer term only.

Credit, 3 hours.

* English 11, 12, 13 and Oratory 11, 12, 13 are combined as one course and carry a credit of 3 hours per term.

ENGLISH 21. English Literature: A survey course in English literature exclusive of the novel and the drama. The reading for the first term includes Beowulf, the popular ballad, Chaucer, Malory, Spenser, Bacon, and Milton. Credit, 3 hours.

ENGLISH 22. English Literature: A continuation of English 21 including Bunyan, Dryden, Addison, Swift, Pope, Gray, Johnson, Goldsmith, Burke, and Burns. Credit, 3 hours.

ENGLISH 23. English Literature: A continuation of English 21 and 22 including Wordsworth, Coleridge, Byron, Shelley, Keats, Carlyle, Ruskin, Tennyson, Browning, Morris, Arnold, and Swinburne. Credit, 3 hours.

ENGLISH 25. American Literature: A survey course in American literature including Franklin, Washington, Bryant, Irving, Emerson, Hawthorne, and Poe. For outside reading, a novel by Cooper. Credit, 3 hours.

ENGLISH 26. American Literature: A continuation of English 25 including Thoreau, Longfellow, Whittier, Holmes, Parkman, and Lincoln. For outside reading, a novel by Hawthorne. Credit, 3 hours.

ENGLISH 27. American Literature: A continuation of English 25 and 26 including Lowell, Whitman, Lanier, Clemens, Bret Hart, Riley, and Roosevelt. For outside reading, a novel by Clemens. Credit, 3 hours.

ENGLISH 351. Shakespeare: A rapid reading including both parts of Henry IV, Henry V, Merchant of Venice, Romeo and Juliet, and Julius Caesar. Credit, 2 hours.

ENGLISH 361. Shakespeare: A continuation of English 351. Among the plays to be read are Antony and Cleopatra, As You Like It, King Lear, Othello, and Richard III. Credit, 2 hours.

ENGLISH 371. Shakespeare: A continuation of English 351 and 361. Among the plays to be read are Macbeth, Hamlet, Tempest, Coriolanus, and Troilus and Cressida. Credit, 2 hours.

ENGLISH 352. Prose Fiction. The Short Story: A study of the principles of narrative fiction, especially as seen in the short story. Selected readings, with critical papers, class discussions, and lectures. Credit, 3 hours.

ENGLISH 362. Prose Fiction. The Novel: A study of the novel, its rise and characteristics, with special attention to the English novel of the 19th century. Reading of selected novels; critical papers, class discussions, and lectures. Credit, 3 hours.

ENGLISH 372. Prose Fiction. The Contemporary Novel: The chief English and American novelists of the later 19th century and of the present. Reading of selected novels; critical papers, class discussions, and lectures. Credit, 3 hours.

ENGLISH 40. Literary Composition. The student may elect some form of creative writing such as the short story, the one-act play, or verse, or some kind of essay such as the personal essay, book reviews, or dramatic criticism. The work will include outside reading, informal lectures, and conferences. The amount of credit will be determined by the number of original compositions satisfactorily completed. Credit, 1 or 2 hours.

ENGLISH 41. Theories of Criticism. This course is designed to give a foundation for independent reading in criticism. Outside reading with written reports and tests, and lectures on the relationship between English and other literatures, the kinds of literature and their origins, versification, the chief English critics, and the terminology of criticism. Credit, 3 hours.

ENGLISH 42. Grammar and Rhetoric: A course for teachers in the history of the English language, the fundamental rules of grammar, and the general theories of rhetoric. Lectures and critical examination of typical text-books. Credit, 3 hours.

English 43. English Classics: A rapid review of books commonly read in high schools including at least one example of the epic, the novel, the drama, the essay, the oration, the lyric, and the narrative poem. Credit, 3 hours.

ENGLISH 45. Tennyson: All the chief poems and dramas, including the Princess, In Memoriam, Maud, the Idylls of the King, Harold, and Becket. Prerequisite: English 21, 22, 23. Credit, 2 hours.

ENGLISH 46. Browning: The shorter poems including all the chief pieces in Dramatic Lyrics, Dramatic Romances, Men

and Women, and Dramatis Personae. Prerequisite: English 21, 22, 23. Credit, 2 hours.

ENGLISH 47. Browning: The longer poems and dramas, including the Ring and the Book, Strafford, Luria, In a Balcony, and A Blot in the 'Scutcheon. Prerequisite: English 21, 22, 23. Credit, 2 hours.

ENGLISH 451. The Modern Drama: A rapid reading of twenty plays including examples of the work of Ibsen, Wilde, Synge, Pinero, Brieux, and Sudermann. Prerequisite: English 21, 22, 23 or 25, 26, 27. Credit, 2 hours.

ENGLISH 461. A continuation of English 451.

Credit, 2 hours.

ENGLISH 471. Modern Poetry. A number of contemporary poets will be read in anthologies, but special attention will be given to Kipling, Masfield, and Amy Lowell. Prerequisite: English 21, 22, 23 or 25, 26, 27. Credit, 2 hours.

ORATORY

Term Courses

ORATORY 11. Interpretation and Presentation of literature; exercises for freeing the body and voice. Text-book: Emerson's Evolution of Expression, Vol. I. Two recitations a week. Credit: Combined with English 11 for a credit of 3 hours.

ORATORY 12. Presentation of literature paying attention to the Parts of the selection. Text-book: Emerson's Evolution of Expression, Vol. II. Two recitations a week. Credit: Combined with English 12 for a credit of 3 hours.

ORATORY 13. Presentation of literature finding the service rendered the whole by each part. Text-book: Emerson's Evolution of Expression, Vol. III. Two recitations a week. Credit: Combined with English 13 for a credit of 3 hours.

ORATORY 21. Physical Culture; a special set of physical exercises is given: Vocal Culture; breath control, placing of tones, resonance; Pantomime; presentation of scenes from life for

criticism: Literary Interpretation; two of the last four steps of Evolution of Expression: Recital: Story-telling and assigned stories. Four recitations a week. Credit, 2 hours.

ORATORY 22. Physical Culture; use of the exercises of Oratory 21 in quotations and selections: Vocal Culture; tone projection, radiation: Pantomime; poised groups representing different thoughts and emotions: Literary Interpretation; the last two steps in Evolution and Expression: Recital: Story-telling and classifying stories. Four recitations a week.

Credit, 2 hours.

ORATORY 23. Physical Culture; special selections with attention paid to gesture; spontaneous gesture: Vocal Culture; compass, smoothness, power and brilliancy of tone: Pantomime; short plays produced from subjects given; scenes from well known dramas or stories: Literary Interpretation; beginning Sixteen Perfective Laws of Art: Recital: Story; the stories of different nations; the use of the story; stories for the different ages of children. Four recitations a week.

Credit, 2 hours.

ORATORY 31. Gesture; technique: Literary Interpretation; expressive study of description and narration; poetry: Recital: Dramatics; reading of one-act plays: Oratory; study of extracts from famous orations. Four recitations a week.

ORATORY 32. Gesture; selections with criticism given especially to gesture: Literary interpretation; poetry and dramatic literature: Recital: Dramatics; presentation of one-act plays; stage setting; business: Oratory; analysis and presentation of orations. Four recitations a week.

ORATORY 33. Gesture; spontaneity and calculation; the physiology and psychology of gesture: Literary Interpretation; prose, poetry, bible: Recital: Dramatics; presentation of one-act plays with costume: Oratory; study and writing of orations. Four recitations a week.

ORATORY 41. Literary Interpretation with drill on the Sixteen Perfective Laws of Art: Impersonation of the child: Recital: Dramatic Interpretation of one tragedy from Shakespeare:

Public Speaking with writing and presenting short speeches on current topics. Four recitations a week.

ORATORY 42. Literary Interpretation with drill on the Sixteen Perfective Laws of Art: Monologue: Dialect: Recital: Dramatics; presentation of scenes from plays studied in Oratory 41: Public Speaking with talks from notes on current topics. Four recitations a week.

ORATORY 43. Literary Interpretation; higher attitudes of the mind and soul: Delineation of character: Public recital: Dramatics; reading and presentation of scenes from one of Shakespeare's comedies: Public Speaking; longer speeches without notes upon current events; topics from history and literature. Four recitations a week.

ORATORY 31, 32, 33, 41, 42, 43 do not yield credit applying toward the requirements for a baccalaureate degree. Students graduating in any of the academic courses who have taken the four years work in Oratory will be given a special certificate in Oratory.

DEPARTMENT OF CLASSICAL LANGUAGES

Latin: Professor Calderwood

Greek: Professor Oliphant

LATIN

Term Courses

LATIN 11. Cicero; *De Senectute* and *De Amicitia*: A study of the text with reference to the grammar, contemporary history and philosophic thought. Text-book: Chase and Stuart. Prerequisite: Latin, 4 units. Credit, 3 hours.

LATIN 12. Latin Composition: A thorough review of grammar and vocabulary. Text-book: Barss' *Latin Composition*, Book 2. Credit, 3 hours.

LATIN 13. Livy, Book 1. Books 2, 21 or 22 may be substituted for Book 1. Credit, 3 hours.

LATIN 21A. Plautus; *Captivi* et *Trinummus*: A study of the Latin Drama. Prerequisite: Latin 11. Taught in 1924-25. Credit, 3 hours.

LATIN 21B. Terence; *Phormio* and Selections: A study of the Latin Drama. Prerequisite: Latin 11, or equivalent. Taught in 1923-24. Credit, 3 hours.

LATIN 22. Tacitus. *Annals*, Book 1 with contemporary history. Credit, 3 hours.

LATIN 23. Horace: Selections from the odes, epodes and satires, with a study of the metre, mythology and literature. Credit, 3 hours.

LATIN 24A. *Tusculan Disputations*, Book 1: A study of Roman Philosophy. Taught in summer of 1924. Credit, 3 hours.

LATIN 24B. Ovid. The Metamorphoses and Tristia. Taught in summer of 1923. Credit, 3 hours.

LATIN 31A. Social Life at Rome in the time of Cicero: Library work, thesis. Text-book: Fowler. Taught in 1924-25. Credit, 3 hours.

LATIN 31B. Roman Political Institutions. Text-book: Abbott. Taught in 1923-24. Credit, 3 hours.

LATIN 32. Latin Literature: A survey of Latin writers, with reading in the original and in translation. Credit, 3 hours.

LATIN 33. Teachers' Latin: A study of the teaching of Elementary Latin, Caesar, Cicero and Vergil; reading of supplementary works on teaching and history. Credit, 3 hours.

LATIN 34A. De Officiis. Taught in summer of 1924. Credit, 2 hours.

LATIN 34B. Roman Historians. Text-book: Scoon, Mierow and Jones: Selections from Roman Historians. Taught in summer of 1923. Credit, 2 hours.

LATIN 41. Cicero's Letters. Selected Letters. Text-book: Abbott. Credit, 2 hours.

LATIN 42. Seneca. The Tragedies. Credit, 2 hours.

LATIN 43. Vergil. Rapid reading in selected portions from Books 7 to 12 of Vergil's Aeneid. Credit, 2 hours.

LATIN 8, 9 and 10. Vergil's Aeneid. Translation with a study of the metre and of the grammar and mythology; emphasis is laid on the Aeneid as a work of literature. Credit, 3 hours.

GREEK

Term Courses

GREEK 11. The Elements of Greek. This course is for those who begin the study in College. It aims to secure a thorough mastery of the principal inflections, a careful study of the leading principles of syntax, the acquisition of a small but efficient vocabulary and a facility in reading and writing easy sentences in Greek. Due attention is given to cognate and derivative words and to

comparison with Latin morphology and with Latin and English syntax. Text-book: Gleason's Greek Primer. Credit, 5 hours.

GREEK 12. The Elements of Greek. This continues Course 11 and concludes with a special review of irregular verbs and a study of word composition. Credit, 5 hours.

GREEK 13. Xenophon: Anabasis, Book I. There is a rigid insistence upon an adequate and idiomatic translation and an accurate understanding and interpretation of the text. As an important ancillary, especial emphasis is laid upon the syntax of the case, mood, tense and participle. Credit, 5 hours.

GREEK 21. Xenophon: Anabasis, Books II-IV, Selections. Prose Composition. There is special consideration of the outstanding stylistic features of the text as propaedeutic to the student's later training in literary appreciation. The course concludes with a study of Xenophon as man, author and commander, and of the historical importance of the expedition. Credit, 3 hours.

GREEK 22. Homer: Books I-III, with due attention to the language, verse, and poetic art of Homer. Credit, 3 hours.

GREEK 23. Homer: Odyssey; Selections. A study of the Homeric Age and its remains. Credit, 3 hours.

GREEK 25.* Hellenic Private Life: A study of the childhood, education, food, dress, marriage, status of women, house and furniture, amusements, religion, slaves, funeral and burial customs, etc. Credit, 2 hours.

GREEK 26.* Hellenic Public Life: A study of politics, government, revenues, finance, manufactures, industries, trusts, commerce, exports and imports, insurance, wages, prices, and interest. Credit, 2 hours.

GREEK 27.* Hellenic Public Life: A study of the army, tactics, navy, fortifications, town planning, public buildings, public amusements, administration of justice, public charities, professions, urban and rural life, etc. Credit, 2 hours.

* Greek 25, 26, 27 will not count on the requirement in Greek.

GREEK 31. Herodotus: Selections. A reading of considerable portions of his *Historia*, a review of the origin of historical composition among the Hellenes and a study of the Ionic dialect. Taught in 1923-24. Credit, 3 hours.

GREEK 32. Plato: *Apology* and *Crito*. A study of the life and work of Socrates. Taught in 1923-24. Credit, 3 hours.

GREEK 33. Plato: *Phædo*. A study of the greatest teacher of Hellenism on the loftiest and universally interesting subject, the immortality of the soul. Taught in 1923-24. Credit, 3 hours.

GREEK 34. Thucydides: Selections from I-III or the story of the Sicilian Expedition. Taught in the summer of 1924. Credit, 3 hours.

GREEK 35. Demosthenes: *De Corona*, with a rapid survey of Greek Oratory. Taught in 1923-24. Credit, 2 hours.

GREEK 36. Euripides: *Alcestis*, *Bacchæ* or *Medea*, and a survey of the life and works of Euripides. Taught in 1923-24. Credit, 2 hours.

GREEK 37. Aeschylus: *Prometheus Vinctus*, or *Agamemnon*, and a study of the rise and development of Tragedy. Taught in 1923-24. Credit, 2 hours.

GREEK 38. Theocritus: *Idylls*. Influence of Theocritus on later pastoral poetry. Taught in summer 1924. Credit, 2 hours.

GREEK 41. Sophocles: *Antigone*, or *Oedipus Tyrannus*; also a study of the Greek Theatre. Taught in 1924-25. Credit, 3 hours.

GREEK 42. Aristophanes: *Birds* or *Frogs*; also a study of the origin of comedy and earlier comedians. Taught in 1924-25. Credit, 3 hours.

GREEK 43. Melic Poets: The principal fragments of the great lyric poets, Alcman, Alcæus, Sappho, Anacreon, Simonides, Stesichorus, etc., with longer selections from Pindar and Bacchylides. Taught in 1924-25. Credit, 3 hours.

GREEK 44. Lucian: Selections from Vera Historia and Dialogues, illustrative of Lucianic fun and mischief, mastery of satire and of the modern spirit. Taught in summer 1923.

Credit, 3 hours.

GREEK 45. New Testament: Gospels. Usually the Gospel of Matthew is presented, with emphasis upon an accurate rendering, study of poetical passages and Jesus' methods of teaching. Taught in 1924-25.

Credit, 2 hours.

GREEK 46. New Testament: Catholic and Pastoral Epistles. Taught in 1924-25.

Credit, 2 hours.

GREEK 47. The Septuagint: Selections. Taught in 1924-25.

Credit, 2 hours.

GREEK 48. New Testament: Selections illustrative of the principles of textual criticism and of the aid derivable from archæology and papyrology. Taught in summer 1923.

Credit, 2 hours.

SANSKRIT 41-43. The elements of Sanskrit, followed by readings from the Classical Literature; selected from the Maha-Bharata, Hitopadeca, Kathasaritsagara, etc. Taught in 1924-25.

Credit, 3 hours.

SANSKRIT 44-46. Readings from the Vedas and ancillary literature. Offered for 1923-24.

Credit, 2 or 3 hours.

In addition to the foregoing regular courses the Department of Greek is prepared to offer properly qualified students other advanced courses in Greek, Archæology, Sanskrit, and Indo-European Philology in lieu of regularly listed courses.

DEPARTMENT OF MODERN LANGUAGES

Professor Caruthers

Professor Pflueger

FRENCH

Term Courses

Those students who offer French as a language for the degree must offer courses beginning with French 15; the work of French 15 requires two years' previous training in French. This previous training is covered by French-2 units or by Courses 11, 12, 13.

FRENCH 11. French Grammar: A course covering Part 1 of Fraser and Squair's Grammar or Cerf and Giese's Beginning French. Credit, 5 hours.

FRENCH 12. French Grammar: A continuation of French 11 with review of work already covered; irregular verbs; translation and conversation based on text. Credit, 5 hours.

FRENCH 13. A continuation of composition and oral practice of the preceding courses; translation. Credit, 5 hours.

FRENCH 15. French translation with work in grammar and conversation. Credit, 3 hours.

FRENCH 16. A course in composition and oral exercises. Credit, 3 hours.

FRENCH 17. Translation, conversation, and composition. Credit, 3 hours.

FRENCH 21. Drama of the 19th Century. Lectures and assigned reading. Romantic, Realistic, Naturalistic, Symbolistic and Problem Plays. Credit, 3 hours.

FRENCH 22. Survey of French Literature: An outline course treating of the main significant literary movements; lectures; class-room work; reading and reports. Credit, 3 hours.

FRENCH 23. A continuation of French 22. Credit, 3 hours.

FRENCH 31. The Classical Drama: Corneille's Cid; Racine's Andromaque; Racine's Esther. Taught in 1923-24.
Credit, 2 hours.

FRENCH 32. Conversation and composition based on text. Taught in 1923-24. Credit, 2 hours.

FRENCH 33. Teachers' Course: A course open to those with a good reading knowledge of French, with emphasis on essential methods and principles. Taught in 1923-24.
Credit, 2 hours.

FRENCH 41. The Modern French Novel and Short Story. Taught in 1924-25. Credit, 2 hours.

FRENCH 42. Advanced conversation and composition based on text; rapid reading of prose. Taught in 1924-25.
Credit, 2 hours.

FRENCH 43. An advanced course for teachers. Taught in 1924-25. Credit, 2 hours.

SPANISH

Term Courses

Those students who offer Spanish as a language for a degree must offer courses beginning with Spanish 15; the work of Spanish 15 requires two years' previous training in Spanish. This previous training is covered by Spanish-2 units or Courses 11, 12, 13.

SPANISH 11. A first term course in essential elements of Spanish; grammar and selections from easy texts. Credit, 5 hours.

SPANISH 12. A continuation of Spanish 11 with added work in idioms, construction, and prose composition. Credit, 5 hours.

SPANISH 13. A continuation of Spanish 12 with more advanced composition and translation. Credit, 5 hours.

SPANISH 15. Translation and prose composition.
Credit, 3 hours.

SPANISH 16. A continuation of Spanish 15. Credit, 3 hours.

SPANISH 17. A continuation of Spanish 16 with one period per week devoted to Commercial Spanish. Credit, 3 hours.

SPANISH 21. Advanced translation and composition.
Credit, 3 hours.

SPANISH 22. A continuation of Spanish 21. Credit, 3 hours.

SPANISH 23. A continuation of Spanish 22 with advanced work in Commercial Spanish. Credit, 3 hours.

The College is prepared to give courses in German whenever a sufficient number desire to take the language to warrant placing it regularly on the schedule.

ART

An optional course in the Appreciation of Art including a study of artists and their work may be offered by Miss Caruthers.

Credit, 1 or 2 hours.

DEPARTMENT OF SCIENCES AND MATHEMATICS

Chemistry: Professor Sieplein, Professor Hoyt

Physics: Professor Harmon

Astronomy: Professor Harmon

Mechanical Drawing: Professor Harmon

Biology: Professor Miller

Mathematics: Professor Ramsey

CHEMISTRY

Term Courses

The course in General Chemistry (taught as Chemistry 11, 12, 13) is designed to give an understanding of the principles which have made modern chemistry possible and to form a groundwork for later studies in both inorganic and organic chemistry. The course deals with the facts of chemistry but emphasizes the relations of these facts to the fundamental theories, e. g. the kinetic molecular hypothesis, chemical equilibrium and the law of mass action, electrolytic dissociation as a guide to the chemistry of solutions, to the study of valence and of the processes of oxidation and reduction. The laboratory work deals primarily with the principles which are fundamental to the understanding of qualitative analysis.

To meet the requirement in Chemistry, the candidate for the degree of Bachelor of Science must present courses 11, 12 and 13, or such other courses as are their equivalent. These other courses must include either course 15 or 24.

CHEMISTRY 11. The work deals with the laws of composition, the atomic and molecular hypotheses and an introduction to

the study of chemical equilibrium. Prerequisite: Chemistry-1 unit. 3 recitations and 2 laboratory periods a week.

Credit, 5 hours.

Professor Sieplein.

CHEMISTRY 12. The study of chemical equilibrium is continued and developed into that of oxidation and reduction, of ionization and electrochemistry. 3 recitations and 2 laboratory periods a week.

Credit, 5 hours.

Professor Sieplein.

CHEMISTRY 13. The classwork consists of a brief sketch of organic chemistry together with a thorough study of solutions, the periodic system and the general principles of metallurgy. 3 recitations and 2 laboratory periods a week.

Credit, 5 hours.

Professor Sieplein.

CHEMISTRY 14. Qualitative Analysis, elementary course: The study of the various types of equilibria and the properties of the elements as a basis for qualitative schemes. 3 recitations and 2 laboratory periods a week. Taught in summer term only.

Credit, 5 hours.

Professor Hoyt.

CHEMISTRY 15. Principles of Chemistry. A summer term course designed for those who have not had the opportunity of taking the work in Chemistry 11, 12, 13. It is a treatment of the principles and theories of modern chemistry: the atomic and molecular hypotheses, chemical equilibrium, and electrolytic dissociation. Prerequisite: Chemistry, 1 unit and Chemistry 17A or Chemistry 14. 3 recitations and 2 laboratory periods a week. Taught in summer term 1924.

Credit, 5 hours.

Professor Sieplein.

CHEMISTRY 17A. Chemical Arithmetic: Practice in the calculations involved in general chemistry. This course must precede Chemistry 11 or in the case of students presenting chemistry for entrance must be taken during the same term as chemistry 11. 3 recitations. Taught in spring term and summer 1923.

Credit, 3 hours.

Professor Hoyt.

CHEMISTRY 18. An elementary course in Organic Chemistry designed, primarily, for those preparing for medical schools. The work deals very largely with the aliphatic compounds. Prerequisite: Chemistry 11, 12, 13. 6 recitations and 2 laboratory periods a week. Taught in summer term only. Credit, 7 hours.

Professor Sieplein.

Additional laboratory work can be arranged for those desiring it.

CHEMISTRY 21. Advanced Qualitative Analysis: The detection of the ions of metal and non-metals by solution methods, special attention being given to the physico-chemical basis of the methods of separation and identification. The laboratory work includes the analysis of rocks, ores, alloys and commercial materials. 3 recitations and 2 laboratory periods a week.

Credit, 5 hours.

Professor Hoyt.

CHEMISTRY 22. Elementary Quantitative Analysis: The principles of quantitative analysis from the standpoint of chemical equilibrium. Gravimetric, volumetric, electrolytic and absorption methods of representative character are studied as types. The laboratory work includes fifteen determinations on simple natural substances. 3 recitations and 2 laboratory periods a week.

Credit, 5 hours.

Professor Hoyt.

CHEMISTRY 23. Advanced Quantitative Analysis: A study of practical methods for the determination of rocks, coal, coke, gas, oils, water, alloys, steel, cement and fertilizer. Those methods are chosen for practice which are in current use in the industrial laboratories of the section. 3 recitations and 2 laboratory periods a week.

Credit, 5 hours.

Professor Hoyt.

CHEMISTRY 24. Qualitative Theories: A summer term course dealing with the theories of solutions which are essential to a complete understanding of chemical action and of qualitative analysis. Prerequisite: Chemistry, 1 unit, and Chemistry 17A

or Chemistry 14. 3 recitations and 2 laboratory periods a week. Taught in summer 1923.

Credit, 5 hours.

Professor Sieplein.

CHEMISTRY 25. History of Chemistry. The subject matter deals with the early developments of the science and places the main emphasis on the growth and use of the atomic and molecular hypotheses, of valence and of the periodic law with reference to inorganic chemistry. The modern theories of matter are considered especially in their bearing on the interrelation of science and philosophy. 2 recitations or lecture periods a week.

Credit, 2 hours.

Professor Sieplein.

CHEMISTRY 27. Teachers' Chemistry. The principles and methods of presenting the subject to high school students are studied. The discussions include sources of information, planning of laboratory work, purchase of supplies and equipment. 3 recitations and 1 laboratory period a week. Taught in fall terms and the summer 1924.

Credit, 3 hours.

Professor Sieplein.

CHEMISTRY 31. Industrial Chemistry: A study of the construction and equipment of plants for the manufacture of chemical products. This includes the production of heavy chemicals, alkalies and borax, ceramic industries, paints and fertilizers. Trips are arranged to nearby cities where these processes may be seen in actual operation on a large scale. 3 recitations a week.

Credit, 3 hours.

Professor Hoyt.

CHEMISTRY 32. Industrial Chemistry. The production of artificial gas, the distillation of coal tar, the refining of petroleum, the extraction and purification of fats and oils, the manufacture of soap, dyes, paper, leather, textiles, explosives and varnish constitute the material of the course. At all times, the function of the laboratory in controlling the manufacturing process is emphasized. 3 recitations a week.

Credit, 3 hours.

Professor Hoyt.

CHEMISTRY 33. Industrial Chemistry. The metallurgy of iron and steel, the blast furnace, Bessemer, open hearth and electric processes are considered not only from the standpoint of re-

actions occurring in the furnace, but also with the heat balance in view. The heat treatment of steel and the metallographic demonstration of the iron-carbon alloys is treated at some length. 3 recitations a week.

Credit, 3 hours.

Professor Hoyt.

CHEMISTRY 35. Chemistry of Foods. The chemistry of the digestive processes is studied and used as a basis for the understanding and application of modern dietary standards. Prerequisite: Chemistry, 1 unit. 3 recitations a week.

Credit, 3 hours.

Professor Sieplein.

CHEMISTRY 36. Technology of Foods. The course deals with processes and practices of manufacture of foods. Prerequisite: Chemistry, 1 unit. 3 recitations a week.

Credit, 3 hours.

Professor Sieplein.

CHEMISTRY 35A. Food Analysis. The work consists of a study of the methods of analysis of milk, milk products and fat-foods. These foods are analyzed and the results of analyses are studied as to the indications they afford of the adulteration or commercial treatment of the food. 1 recitation and 2 laboratory periods a week.

Credit, 3 hours.

Professor Sieplein.

CHEMISTRY 36A. Food Analysis: A continuation of the preceding course but dealing with the carbohydrate foods (sugars, starches, syrups), chocolate, vinegar, and the spices. 1 recitation and 2 laboratory periods a week.

Credit, 3 hours.

Professor Sieplein.

CHEMISTRY 37A. Water Analysis. Methods of testing water are studied as indicating the availability of the supply for household use and for various commercial applications. The elements of water bacteriology constitute a large part of the consideration of the supply for sanitary uses. 1 recitation and 2 laboratory periods a week.

Credit, 3 hours.

Professor Sieplein.

CHEMISTRY 41. Organic Chemistry; Aliphatic Compounds: A study of general principles and of a small number of the most important aliphatic compounds as a preliminary to more intensive work later. The laboratory work deals with the methods of purification, identification and analysis of organic compounds. Prerequisite: Chemistry 11, 12, 13. 3 recitations and 2 laboratory periods a week.

Credit, 5 hours.

Professor Sieplein.

CHEMISTRY 42. Organic Chemistry; Aliphatic Compounds: A detailed study dealing with the alcohols, acids, sugars, compounds containing nitrogen and sulphur. The laboratory assignment is the preparation of fifteen compounds. Prerequisite: Chemistry 41. 3 recitations and 2 laboratory periods a week.

Credit, 5 hours.

Professor Sieplein.

CHEMISTRY 43. Organic Chemistry; Aromatic Compounds: A course similar to Chemistry 42 but dealing with cyclic compounds used as drugs and dyes. 3 recitations and 2 laboratory periods a week.

Credit, 5 hours.

Professor Sieplein.

As a portion of the laboratory work of Chemistry 41, 42, 43, the student is required to prepare two specimens in each course, of such quality and tested purity that they may be placed in the collection of museum specimens of organic compounds.

CHEMISTRY 45. Physical Chemistry: The molecular and atomic theories together with certain subatomic phenomena; the relation of the physical properties of gases, liquids and solids to chemical constitution. The laboratory work consists of spectroscopy and the determination of such constants as density, surface tension, viscosity and refractive index. 3 recitations and 2 laboratory periods a week.

Credit, 5 hours.

Professor Hoyt.

CHEMISTRY 46. Physical Chemistry: The properties of solution and colloidal suspensions; thermochemistry; physical and chemical statics and kinetics. The laboratory work includes the preparation of colloids, the determination of molecular weight

by freezing point, boiling point, and vapor pressure methods, heat of combustion by the bomb calorimeter, and studies in equilibrium. 3 recitations and 2 laboratory periods a week. Credit, 5 hours.

Professor Hoyt.

CHEMISTRY 47. Physical Chemistry: The principles of theoretical electrochemistry. The laboratory work includes determinations of transport numbers and the conductivity of solutions as well as various measurements of electromotive force. 3 recitations and 2 laboratory periods a week. Credit, 5 hours.

Professor Hoyt.

CHEMISTRY A. Elements of Industrial Chemistry: A study of the general industrial processes involving chemistry. Prerequisite, Chemistry, 1 unit. 3 recitations a week.

Credit, 3 hours.

Professor Sieplein.

CHEMISTRY B. Elements of Metallurgy. The principles of metallurgy of the more important metals are studied. Especial stress is laid on the iron and steel processes and on the importance of metallography in modern industry. Prerequisite: Chemistry 1 unit. 2 recitations a week.

Credit, 2 hours.

Professor Sieplein.

Chemistry A and Chemistry B may not be presented as meeting chemistry requirements for the degree of Bachelor of Science.

The candidates for the degree of Bachelor of Commercial Science who take chemistry as their freshman science should enroll in Chemistry A, Chemistry 36 and Chemistry B.

CHEMISTRY 1. Elementary Course in Chemistry: A study of important nonmetals together with the atomic theory. 3 recitations and 2 laboratory periods a week. Credit, 3 hours.

Professor Hoyt.

CHEMISTRY 2. Elementary Course, second term. The metals are taken up in connection with the periodic law. Industrial processes utilizing chemistry are stressed. 3 recitations and 2 laboratory periods a week.

Credit, 3 hours.

Professor Hoyt.

CHEMISTRY 4. A general course dealing with the fundamental theories of chemistry. The nonmetals are first considered and then the metals. 5 recitations and 4 laboratory periods a week. Taught in summer term only.

Credit, 6 hours.

Professor Hoyt.

PHYSICS

Term Courses

PHYSICS 21A. Properties of matter and elementary theory of mechanics. Text-books: Kimball's College Physics; Conrad's Laboratory Manual with the experiments amplified and supplemented. Prerequisite: Mathematics 11. 3 recitations and 1 laboratory period a week.

Credit, 4 hours.

PHYSICS 22A. Elementary theory of heat, magnetism and static electricity. 3 recitations and 1 laboratory period a week.

Credit, 4 hours.

PHYSICS 23A. The elements of current electricity, sound and light. 3 recitations and 1 laboratory period a week.

Credit, 4 hours.

PHYSICS 21B, 22B, 23B, are courses paralleling the above, designed for students who have not completed preparatory physics, or, those who need additional laboratory practice. This additional laboratory practice is necessary for those intending to meet the requirements for entrance to medical schools. The theory is presented with this requirement in mind. The same laboratory manual is used but 50 experiments are required for the complete course.

Credit, 5 hours each term.

PHYSICS 21, 22, and 23 afford a general course in which a student becomes familiar with the elementary principles of the science and their applications. The subject matter is presented through the means of very fully illustrated experimental lectures in which the lantern is much used. The student is frequently referred to the departmental library. He is required to solve a large number of problems and write reports on his laboratory work. Two weeks of weather observation is included in the laboratory course.

PHYSICS 31. Elementary Mechanics and Heat: Mechanics of Solids, Fluids, and Heat. Text-book: Franklin and McNutt's Mechanics and Heat. Special and selected experiments from standard manuals for college physics. Prerequisite: Physics 23. 3 recitations and 1 laboratory period a week. Credit, 4 hours.

PHYSICS 32. Principles and Practice of Electrical Engineering. Text-book: Gray. 3 recitations and 1 laboratory period a week. Credit, 4 hours.

PHYSICS 33. A continuation of Physics 32. 3 recitations and 1 laboratory period a week. Credit, 4 hours.

PHYSICS 31, 32, 33 afford a more technical course than Physics 21, 22 and 23, and are an introduction to Theoretical and Practical Physics. The many problems used are of an especially practical nature and of greater difficulty than those of Physics 21, 22 and 23. Thirty laboratory experiments are required in the year's work. These are more thorough and of greater difficulty than those of the elementary course. They require the use of more accurate apparatus and demand greater skill of manipulation and observation. The reports cover the theory and the analysis of data in a thorough manner.

PHYSICS 41. Teachers' course in Physics. Text-book: Twiss: The Teaching of Science. Prerequisite: Physics 23. 2 recitations and 1 laboratory period a week. Credit, 3 hours.

PHYSICS 42. Continuation of Physics 41. 2 recitations and 1 laboratory period a week. Credit, 3 hours.

PHYSICS 43. Continuation of Physics 42. 2 recitations and 1 laboratory period a week. Credit, 3 hours.

PHYSICS 41, 42 and 43 are intended for those preparing to teach high school physics. The work consists of a discussion of the methods of teaching of courses, of text-books, of catalogues of supply houses, of the equipment of the laboratory, of care and construction of apparatus, of direction of the laboratory work and of giving experimental lectures before a class. In general the point of view taken is that of the teacher.

PHYSICS 47A. Radio-Engineering: A descriptive and practical course dealing further than in 23 and 33 with the principles of electrostatic and electromagnetic induction, and of the electron and electromagnetic wave theories. Laboratory work consists of the measurement of the various capacities and inductances of the receiving and sending apparatus, wave length of aërials, etc., the practice of the code, and of sending and receiving. Text-book: Lauer and Brown. 2 recitations and 1 laboratory period a week. Taught as a two term course in the winter and spring terms.

Credit, 3 hours.

PHYSICS 47B. Light and Sound: A course corresponding to Physics 31, 32, 33, being of the same grade and character. Text-book: Franklin and McNutt's Light and Sound. 2 recitations and 1 laboratory period a week. Taught as a two term course in the fall and winter terms 1923-24.

Credit, 3 hours.

ASTRONOMY

ASTRONOMY 35. Astronomy: A short but intensive descriptive course, dealing with the systems of reference cycles, the earth as a heavenly body, the moon, the sun, planets, stars, and nebulae. Text-book: Young's Manual. Taught as a two term course in the fall and winter terms 1924-25.

Credit, 2 hours.

MECHANICAL DRAWING

The aim of the first year course is to become familiar with the various styles of lettering and to acquire skill in their formation, to become familiar with the drawing instruments and their use and to apply them in making geometrical drawings and projections used in the solution of the problems given in the course.

MECHANICAL DRAWING 11. Free hand drawing, lettering and geometrical drawing. Text-book: Thompson, Books 1 and 2.

Credit, 5 hours.

MECHANICAL DRAWING 12. Projection and perspective: advanced lettering. Text-book: Tracey.

Credit, 5 hours.

MECHANICAL DRAWING 13. Continuation of the second term work.

Credit, 5 hours.

The intent of the second year work is to give the student such knowledge as will prepare him to pursue a course in engineering and such practice in drawing as will qualify him to do ordinary commercial work.

MECHANICAL DRAWING 21. Free hand sketching of machine parts, and scale drawing of the same. Credit, 5 hours.

MECHANICAL DRAWING 22. Complete drawing of machines. Credit, 5 hours.

MECHANICAL DRAWING 23. Elementary Machine Design. Credit, 5 hours.

Advanced work in machine design and mechanism is arranged to meet the needs of the student.

BIOLOGY

Term Courses

BIOLOGY 11. General Biology: A study of the living cell; its structure, its role in individual development, body waste and repair, adaptation, reproduction, and inheritance. This course is a prerequisite of all succeeding courses in this department excepting Geology 11. 3 recitations and 2 laboratory periods a week.

Credit, 5 hours.

BIOLOGY 25. Elementary Bacteriology: The bacteriology of air, water, food, soil, and the industries. The course closes with a review of the most serious pathogenic organisms. The work is sufficiently broad to be of value to all students. 3 recitations and 2 laboratory periods a week. Taught fall term 1924-25.

Credit, 5 hours.

BIOLOGY 26. Heredity and Eugenics: An analysis of the complex physical machinery of biological inheritance, its governing laws, and results which attend its behavior. Application of these principles is made to the modern field of scientific plant and animal breeding and to the improvement of the human species. 3 recitations a week.

Credit, 3 hours.

BIOLOGY 31. Teaching of Biology: A study of the educational and practical aims of biology, construction of courses of study, selection of text and reference books, and problems of presenting material. Laboratory work consists of field trips, identification and preservation of specimens, preparation of materials for microscopic study, clay modeling for demonstration purposes, laboratory supervision, conduction of classes. Prerequisites: Biology 11, Botany 12, 13, Zoology 16, 17. 3 recitations and 2 laboratory periods a week. Taught fall term 1923-24.

Credit, 5 hours.

BIOLOGY 33. Organic Evolution: A review of the epoch-making theories of evolution, the evidence on which they are based, and their comparative significance in influencing the thought and progress of biological sciences. 3 recitations a week. Taught spring term 1923-24.

Credit, 3 hours.

BOTANY

Term Courses

BOTANY 12. The Plant Kingdom: A study of the natural history, general relationships, and economic importance of the great plant groups. 3 recitations and 2 laboratory periods a week.

Credit, 5 hours.

BOTANY 13. Elementary Ecology: A course based upon relations that exist among the structures, functions, and environments of plants, and upon the characters of plant societies. 3 recitations and 2 laboratory periods a week.

Credit, 5 hours.

BOTANY 17. Systematic Botany: The identification of ferns and flowering plants in the region of Grove City. Students are made familiar with the use of botany manuals and with those external features which distinguish the larger families of these two categories of plants. 2 double field or laboratory periods a week. Taught spring term 1924-25.

Credit, 4 hours.

BOTANY 21. Morphology of Thallophytes: Representative plants from the orders of algae and fungi are studied in detail, the aim being to develop an understanding of their genetic relation-

ship as well as an acquaintance with their minute anatomy. 2 recitations and 2 or 3 laboratory periods a week. Taught fall term 1923-24. Credit, 4 or 5 hours.

BOTANY 22. Morphology of Bryophytes and Pteridophytes: A course similar to Botany 21 but dealing with liverworts, mosses, ferns, and the fern allies. 2 recitations and 2 or 3 laboratory periods a week. Taught fall term 1923-24. Credit, 4 or 5 hours.

BOTANY 23. Morphology of Spermatophytes: A comparative study of the seed plants. Aims are similar to those of Botany 21 and 22. 2 recitations and 2 or 3 laboratory periods a week. Taught spring term 1923-24. Credit, 4 or 5 hours.

BOTANY 31. Plant Microtechnique: Training in the preparation of plant materials for microscopic study; mounting of minute plants in toto, and sectioning and staining of complex plant tissues. Periods to be arranged. Taught fall term 1923-24.

Credit, 2 hours.

BOTANY 33. Plant Production: This course seeks to relate the fields of plant morphology, physiology, ecology, pathology, and genetics in their application to the production of farm crops. Farm management is discussed in its bearing on the care of soils, cropping systems, crop improvement, and grading and marketing of products. 3 recitations a week. Taught spring term 1924-25.

Credit, 3 hours.

ZOOLOGY

Term Courses

ZOOLOGY 16. Invertebrate Zoology. Representatives of the invertebrate phyla are dissected and a comparative study is made. Emphasis is placed not only upon anatomy but also upon physiology, life history, and economic importance of the groups represented. 3 recitations and 2 laboratory periods a week.

Credit, 5 hours.

ZOOLOGY 17. Comparative Anatomy of Vertebrates (excepting the mammal). Vertebrate animals are represented in laboratory dissections by the perch, frog, turtle, and pigeon. The aim is

to develop an understanding of the general principles of vertebrate structure and of the genetic relationships of the groups as may be interpreted from anatomical characters. 3 recitations and 2 laboratory periods a week. Credit, 5 hours.

ZOOLOGY 25. Anatomy and Physiology of the Mammal. The work is based on the cat or rabbit as a laboratory type. Structural and functional characters form bases for comparison with human organisms. 2 recitations and 2 laboratory periods a week. Taught fall term 1924-25. Credit, 4 hours.

ZOOLOGY 26. Animal Histology: A study of the cellular structure of animal tissues, their embryonic origin, their development, and their functions. 2 recitations and 2 laboratory periods a week. Taught winter term 1924-25. Credit, 4 hours.

ZOOLOGY 31. Animal Microtechnique: Training in the preparation of animal tissues for microscopic study; minute dissections, isolation of histological elements, sectioning, mounting, and staining. Periods to be arranged. Taught fall term 1923-24. Credit, 2 hours.

GEOLOGY

Term Courses

GEOLOGY 11. General Geology: A course of lectures on the structure of the earth, natural forces which bring about structural changes, and the historical record of those changes as it may be read in the rocks. Economic significance of geological formations are emphasized throughout the course. 5 recitations a week. Taught in fall term 1924-25. Credit, 5 hours.

MATHEMATICS

Term Courses

MATHEMATICS 6. Solid Geometry. Text-book: Wentworth's Plane and Solid Geometry (Revised), Books 6 to 8. Five recitations. Credit, 3 hours.

MATHEMATICS 11. Plane Trigonometry. This course presupposes a good working knowledge of elementary algebra, intermediate algebra through quadratics, and plane geometry. Special emphasis is laid upon the solution of the right triangle, the solution of the oblique triangle, and the acquiring of facility in the use of logarithms. The aim of this course is to acquaint the student with the fundamental definitions, laws, and relations in plane trigonometry sufficiently, not only to enable him to solve problems in plane triangles with facility, but also to pursue more advanced courses successfully. Credit, 3 hours.

MATHEMATICS 12. College Algebra, First Course. Fundamental notions and definitions are emphasized, some topics from intermediate algebra are reviewed and treated more critically, and an introduction is given to a few topics of more advanced work. The aim of this course is to train the student in more critical thinking, and to help him to gain an insight into and power to deal with quantitative relations in general. Credit, 3 hours.

MATHEMATICS 13. College Algebra, Second Course. This course is a continuation of Mathematics 12 in matter, aim, and method. Among the topics studied are: complex numbers, theory of equations, infinite series, permutations and combinations, probability, and determinants of the fourth order. Credit, 3 hours.

MATHEMATICS 21. Analytic Geometry, First Course: An introduction to the analytic geometry of two dimensions which presupposes a good working knowledge of plane trigonometry and the first course in college algebra. The work includes a study of Cartesian co-ordinates, loci, the straight line, the circles, polar co-ordinates, and transformations of co-ordinates. Credit, 3 hours.

MATHEMATICS 22. Analytic Geometry, Second Course: A continuation of the work begun in the first course, including a study of conic sections, tangents and normals, diameters, poles and polars, the general equation of the second degree, and higher plane curves. Credit, 3 hours.

MATHEMATICS 23. Advanced Trigonometry. The greater part of the term is devoted to a study of spherical trigonometry. The solution of right and oblique spherical triangles and their

applications to navigation and astronomy are studied. A few advanced topics from plane trigonometry are treated in the latter part of the course. Credit, 3 hours.

MATHEMATICS 25. Plane Surveying. The class work is supplemented by field work in which the practical phase of the work is emphasized. The field work for the course includes the measurement of vertical angles and horizontal angles, compass surveys of areas, transit survey of areas, relocation of lost corners, leveling for profile and grading for sewers. The class work will include the solution of problems from the data obtained, as well as extended problem work from the text. 2 recitations and 1 hour of field work. Credit, 3 hours.

MATHEMATICS 26. Advanced Surveying. This will include precise methods, laying out city lots, laying out railroad curves, railroad grading, street and public road surveying, and at the latter part of the term, detailed work in topography by approximate and by stadia methods. 2 recitations and 2 hours of field work. Credit, 4 hours.

MATHEMATICS 32. Differential Calculus: An 'introductory course with applications of the fundamental principles to the solution of problems in geometry, maxima and minima, points of inflection and curve tracing. Expansion of functions and infinite series are also considered. Credit, 3 hours.

MATHEMATICS 33. Integral Calculus: An elementary course presupposing a good working knowledge of the elements of the differential calculus as given in Mathematics 32. The course includes applications of the principles of integration to the solution of simple problems in geometry, mechanics, and physics. Credit, 3 hours.

In addition to the above collegiate courses in mathematics there will be offered, from time to time, when there is a sufficient demand for them, the following advanced courses, which may be arranged either as two or three hour courses:

MATHEMATICS 34. Calculus III: A continuation of the work in calculus including selected topics from both differential

and integral calculus, with emphasis upon the application of the integral calculus. Credit, 3 hours.

MATHEMATICS 37. Analytical Mechanics. Credit, 3 hours.

MATHEMATICS 39. History of Mathematics. Credit, 3 hours.

MATHEMATICS 41. Solid Analytics. Credit, 3 hours.

MATHEMATICS 42. Theory of Equations. Credit, 3 hours.

MATHEMATICS 44. Limits and Series. Credit, 3 hours.

MATHEMATICS 47. Differential Equations. Credit, 3 hours.

DEPARTMENT OF COMMERCE

*Professor Walters, Professor Leager, Professor Hayes,
Miss Bell, Miss Kilchenstein*

ACCOUNTING

Term Courses

Accounting courses 11, 12, 13, and 21, 22, 23, are required of all candidates for the degree of Bachelor of Commercial Science. Students who have not had previous training in bookkeeping should elect Accounting 1, 2, 3 before entering Accounting 11, 12, 13. Six terms of accounting are required of all two-year secretarial students.

ACCOUNTING 1. Introductory Bookkeeping: A study of the theory of accounts and the functions of particular accounts, the trial balance, business and financial statements, closing the ledger by journal entries. Exercises are given in journalizing.

Credit, 3 hours.

ACCOUNTING 2. Business Papers and Books of Original Entry: A study of invoices, customers monthly statements, checks, receipts, deposit tickets, depositors monthly statements, cash book, purchase journal and sales journal. Problems and practice work.

Credit, 3 hours.

ACCOUNTING 3. Bookkeeping and Business Transactions: Practical work in the proper entries for various business transactions. A thorough study is made of drafts and draft transactions, of the difference between single and double entry bookkeeping and the process of changing from single to double entry.

Credit, 3 hours.

ACCOUNTING 11. Introductory Accounting. A study is made of the history of accounting, types of business organization,

financial and profit and loss statements, the account, the philosophy of debit and credit, the books of accounting and business papers and business methods. Recitations, problems and practice work. Credit, 3 hours.

ACCOUNTING 12. Continuation of Accounting 11. A study is made of methods of posting, the trial balance, adjustment entries and corrections, classification of accounts and the partnership form of business. Recitations, problems and practice work. Credit, 3 hours.

ACCOUNTING 13. Continuation of Accounting 12. A study is made of controlling accounts, single entry and double entry bookkeeping. Recitations, problems and practice work. Credit, 3 hours.

ACCOUNTING 21. Corporation Accounting: A study of the corporation, the voucher system, factory costs, and general principles of valuation and depreciation. Recitations, problems and practice work. Credit, 3 hours.

ACCOUNTING 22. Continuation of Accounting 21. A study is made of temporary and permanent investments, tangible and intangible assets, current and fixed liabilities, profits, reserves, dividends and sinking funds. Recitations, problems and practice work. Credit, 3 hours.

ACCOUNTING 23. Continuation of Accounting 22. A study is made of the liquidation of a corporation, combinations and consolidations, branch house accounting, suspense accounts, adjustments, consolidated balance sheets and reports of receivers and trustees. Credit, 3 hours.

ACCOUNTING 31. Applied Accounting. A study is made of accounting principles as applied to various businesses. An effort is made to teach the accounting features of particular business enterprises and their many management and administration problems. A particular study is made of accounting control, savings bank accounting, and bituminous coal mine accounting. Recitations, problems, and practice work. Taught in 1923-24. Credit, 3 hours.

ACCOUNTING 32. Continuation of Accounting 31. A study is made of the application of accounting principles to pre-

cious metal mine accounting, ranch cost accounting, accounting for malleable iron industry, contractor's accounts, and coffee trade accounting. Recitations, problems, practice work. Taught in 1923-24. Credit, 3 hours.

ACCOUNTING 33. Continuation of Accounting 32. A study is made of the application of accounting principles to department store accounting, the accounts of a public accountant's office, accounting for an advertisement agency, hotel accounts, and municipal accounting. Recitations, problems, practice work. Taught in 1923-24. Credit, 3 hours.

ACCOUNTING 41. Cost Accounting. A study is made of the differences between cost and financial accounting, the reasons for finding costs, and the principles underlying allocation of expenses. The treatment of material and labor, the theories of indirect expenses, departmentalization, machine hour rate and production centers are studied. Recitation and problems. Taught in 1924-25. Credit, 3 hours.

ACCOUNTING 42. Cost Accounting: A continuation of Accounting 41. Application of principles is made to specific lines of business, and typical problems are studied. A term paper covering original work is required of each student and a practice set of cost accounts is carried on. Taught in 1924-25. Credit, 3 hours.

ACCOUNTING 43. Cost Accounting: A continuation of Accounting 42. Taught in 1924-25. Credit, 3 hours.

ACCOUNTING 47. Business Mathematics: An intensive survey of the mathematics most often used by business men and accountants. Formulas are developed and applied to problems. A study is made of present worth, annuities, exchange, depreciation and interest. Recitation and problems. Taught in spring 1925. Credit, 3 hours.

ECONOMICS

Term Courses

ECONOMICS 31. Principles and Theories of Economics: A study of wealth and labor, modern industry, features of modern production and capital. Credit, 3 hours.

ECONOMICS 32. Continuation of Economics 31. A study is made of value and exchange, money and banking, international trade, distribution of wealth, land, and agriculture.

Credit, 3 hours.

ECONOMICS 33. Continuation of Economics 32. A study is made of wages, population, labor problems, railway economics, public ownership, socialism, and taxation.

Credit, 3 hours.

BUSINESS ADMINISTRATION

Term Courses

BUSINESS ADMINISTRATION 23. Commercial Correspondence: A study of the various types of letters used in business, their form, style, underlying principles. Work will be given in letters ordering goods, and asking payment of bills, letters of inquiry, sales letters, routine letters, announcements, letters of recommendation and application, form letters and follow-up letters. Recitations and laboratory work.

Credit, 3 hours.

BUSINESS ADMINISTRATION 31. Office Management: A study of the organization and standardization of the stenographic, accounting, credit, collection, sales, advertising and employment departments of a firm, and the control of personnel and production.

Credit, 3 hours.

BUSINESS ADMINISTRATION 32. Business Organization: A study of the evolution and forms of business organization, the internal organization and special problems of public policy regarding corporations and trusts.

Credit, 3 hours.

BUSINESS ADMINISTRATION 33. Business Finance: A study of the capitalization of business, stocks, bonds, watered stock, mortgages, amortization, government regulation of corporation finances, syndicates, the stock exchange, liens and reorganization.

Credit, 3 hours.

BUSINESS ADMINISTRATION 35. Statistics. A study is made of the statistical unit and its use in the gathering of data, of what goes to make up a statistical problem, the sources of data and the tabulation of material. The use of diagrams, outline

maps, frequency tables and graphs is studied, and a comparison is made of the various types and averages and the advantages of each. Recitations and laboratory work. Credit, 3 hours.

BUSINESS ADMINISTRATION 36. Statistics: A continuation of Business Administration 35. The work is largely mathematical and includes the various methods of calculating dispersion. Correlation is studied and also material secured by the student. Recitations and laboratory work. Credit, 3 hours.

BUSINESS ADMINISTRATION 37. Industrial Management: A study of the theory of industrial and plant location, plant equipment, the power problem, labor problems, and industrial records. Credit, 3 hours.

BUSINESS ADMINISTRATION 38. Labor Problems: A study of the evolution and character of present-day problems of labor—labor legislation, wages, hours of work, unemployment, strikes, labor unions, arbitration, profit sharing plans, welfare work, etc. Credit, 3 hours.

BUSINESS ADMINISTRATION 39. Employment Management. A study is made of the modern employment department, its personnel and problems. Particular attention is given to the modern methods of analyzing jobs, the technique of giving employment tests, and schemes for the promotion of employees. Recitations and problems. Credit, 3 hours.

BUSINESS ADMINISTRATION 41. Commercial Law. A practical study will be made of the formation, interpretation and operation of contracts in general. Credit, 3 hours.

BUSINESS ADMINISTRATION 42. Commercial Law: A detailed study of the formation, operation and termination of agencies, partnerships and corporations. Credit, 3 hours.

BUSINESS ADMINISTRATION 43. Commercial Law: A study of personal and real property, suretyship, guaranty and insurance, estates and decedents. Credit, 3 hours.

BUSINESS ADMINISTRATION 47. Credit: A study of the history and theory of credit, credit instruments, kinds of credit,

collections, credit legislation, sources of credit information and the work of the credit department. Credit, 3 hours.

BUSINESS ADMINISTRATION 48. Investments: A study of the general principles of investments; the forms of investment securities, including national, state, and municipal bonds, stocks, public utility securities, and the work of bond houses and stock exchanges. Credit, 3 hours.

BUSINESS ADMINISTRATION 49. Money and Banking: A study of the history and function of money, the kinds of money, the origin and development of banking, the functions and administration of banks, the clearing house, domestic and foreign exchange, kinds of banks, the Federal Reserve system. Credit, 3 hours.

COMMERCE

Term Courses

COMMERCE 21. History of Commerce: An historical study of the economic, commercial and industrial development of the ancient nations, the Italian Republics, the Hanseatic League, Holland, the modern European nations, the United States and Latin America, with special emphasis on the Industrial Revolution and its effects. Credit, 3 hours.

COMMERCE 22. Economic Geography: A study of materials of commerce, agricultural, mineral and manufactured, including the processes involved, the importance of by-products, the transportation of goods and the localization of industry. Credit, 3 hours.

COMMERCE 23. Natural Resources of the United States and their conservation. A study is made of the available supplies, the waste and the conservation of mineral fuels, metallic resources, water, forests, land, and man himself. Credit, 3 hours.

COMMERCE 31. Advertising. This course will present the fundamental principles of advertising and show its relation to business as a whole. It includes a study of advertising copy, rates, campaigns, media, trade marks and trade names, etc. Credit, 3 hours.

COMMERCE 32. Salesmanship. This course will deal with the principles of personal salesmanship. Although salesmanship is rapidly becoming a science, the importance of personality and of good common sense in selling will not be overlooked.

Credit, 3 hours.

COMMERCE 33. Retailing: A study of the economics of retailing, including the work of the retail salespeople, the securing and training of salesmen, wages, the location of stores, retail prices, chain and department stores, mail order houses, and the public regulation of retail businesses.

Credit, 3 hours.

COMMERCE 35. Marketing: A study of the types of market and merchandise distributors, market functions, sales functions, the simplifications of functions and the cost of distribution.

Credit, 3 hours.

COMMERCE 36. Principles of Transportation. A study is made of the origin and growth of the railway, the railway company and the railway mechanism, freight, passenger, express and mail service, capitalization, earnings and government regulation of railways, the electrical railway, ocean transportation and the merchant marine, inland waterways, good roads and motor truck service. Text-book and collateral reading.

Credit, 3 hours.

COMMERCE 37. Ocean Transportation: A study of merchant marine history; types and construction of ships; freight, mail and passenger traffic; organization of corporations engaged in ocean transportation; relation of the carriers to each other, to the government and the public; merchant marine policy; together with a study of the effect of general transportation questions upon society.

Credit, 3 hours.

COMMERCE 41. Principles of Foreign Trade: A study of demand and supply in the foreign market, principles of international distribution, commercial policies of foreign powers, machinery of foreign trade, the foreign trade organization and trade regulations. Text-book and collateral reading.

Credit, 3 hours.

COMMERCE 42. Foreign Exchange: A study of the fundamental theory of foreign exchange, the various kinds and

systems of exchange, and the work of the foreign exchange banker. Text-book and problems. Credit, 3 hours.

COMMERCE 45. Trade with Latin America: A study of the trade problems of Latin America, methods and agents of securing trade, financial conditions in Latin America, the American Consular Service, correspondence, catalogues and advertising, packing and marketing goods, and steamship facilities. Text-book and collateral reading with a study of government reports.

Credit, 3 hours.

COMMERCE 46. Trade with Asia. An historical study is made of China and Japan during foreign intercourse, including their constitutions and political parties, tariffs, treaties, commercial law, natural resources and manufacturing industries, credit methods and market analysis, finance and transportation development. A similar study is made of the Philippines and the Dutch East Indies, British India, Burma and Ceylon, Malaysia, French Indo-China, and Siam.

Credit, 3 hours.

COMMERCE 47. Trade with Europe. Each country will be studied with the following topics stressed: topography, climate, resources, transportation facilities, foreign investments, banking, shipping, legal requirements of trade, advertising, salesmanship and related topics.

Credit, 3 hours.

COMMERCIAL EDUCATION

Term Courses

COMMERCIAL EDUCATION 11. Methods in Commercial Education: The best methods of presenting courses in book-keeping, shorthand, typewriting, commercial geography, commercial law, commercial correspondence, arithmetic, commercial history and elementary economics. Taught in summer terms.

Credit, 3 hours.

COMMERCIAL EDUCATION 12. Methods of teaching Shorthand and Typewriting: A thorough study with practice periods in teaching shorthand and typewriting, Pitmanic systems. Taught in summer terms.

Credit, 3 hours.

COMMERCIAL EDUCATION 13. The Commercial High School and its Problems: The relation of the commercial high school to the business community, the academic high school and the college, the preparation of the commercial teacher, the equipment of the commercial department, supervision of commercial work by state and nation and courses of study. Taught in summer terms. Credit, 3 hours.

STENOGRAPHY

Term Courses

STENOGRAPHY 11. The principles of shorthand up to and including the N and F hooks, word signs and simple dictation. Credit, 5 hours.

STENOGRAPHY 12. The principles of shorthand from the N and F hooks up to and including the Doubling Principle, review of all word signs and taking of simple dictation. Credit, 5 hours.

STENOGRAPHY 13. The principles of shorthand from the Doubling Principle to end of text-book, review of all of word signs, taking of simple dictation and emphasizing of phrasing. Credit, 5 hours.

STENOGRAPHY 21. A review of the principles of shorthand; daily dictation of simple letters and articles; drill on English and shorthand vocabulary; reading of forty pages of printed shorthand. Speed of eighty-five words in one minute is required. Credit, 5 hours.

STENOGRAPHY 22. Dictation of letters, newspaper and magazine articles, speeches and law work; drill on English and shorthand vocabulary; reading of fifty pages of printed shorthand. Speed of one hundred words in one minute is required. Credit, 5 hours.

STENOGRAPHY 23. Dictation of letters, newspaper and magazine articles, speeches, legal work and specifications; drill on English and shorthand vocabulary; reading of seventy-five pages of printed shorthand. Speed of five hundred words in five minutes is required. Credit, 5 hours.

STENOGRAPHY 31. Reporting Shorthand. This class is open to students who already write one hundred words a minute. The work is limited to the acquiring of a high speed in shorthand and prepares students for general reporting work.

Credit, 3 hours.

STENOGRAPHY 32. A continuation of Stenography 31.

Credit, 3 hours.

STENOGRAPHY 33. A continuation of Stenography 32.

Credit, 3' hours.

TYPEWRITING

Term Courses

No credit is given for the following courses in Typewriting unless they are taken in conjunction with courses in Stenography.

TYPEWRITING 11. Beginning Typewriting: The learning of the key-board by the touch method; simple dictation; practice on words and sentences. Five recitations a week.

Credit, 2 hours.

TYPEWRITING 12. Continuation of Typewriting 11: Writing of words, sentences and letters; study of the mechanism of the typewriter. Five recitations a week.

Credit, 2 hours.

TYPEWRITING 13. Continuation of Typewriting 12: Writing of letters and legal forms; complete mastery of the key-board required; tabulating. Five recitations a week.

Credit, 2 hours.

TYPEWRITING 21. Speed practice; writing of words and sentences, but with the object of speed rather than mastery of the key-board; dictation; transcription of shorthand notes. Speed of thirty words a minute required for a period of ten minutes. Five recitations a week.

Credit, 2 hours.

TYPEWRITING 22. Speed practice; speed sentences and articles; dictation and transcription of shorthand notes. Speed of forty-five words a minute required for a period of fifteen minutes. Five recitations a week.

Credit, 2 hours.

TYPEWRITING 23. Speed practice; speed sentences and articles; dictation and transcription of shorthand notes; office practice. Speed of sixty words a minute required for a period of twenty minutes. Five recitations a week. Credit, 2 hours.

SECRETARIAL

Term Courses

Secretarial 1, 2, 3 are required in the Two-Year Secretarial Course and may be required in the Course in Commerce where lack of preparation is shown.

SECRETARIAL 1. Business Arithmetic. This course will include a study of the more important phases of arithmetic as related to business. It will include a review of the principles and applications of percentage, with emphasis on interest, discount, bank discount and commission. The study of accounts from the arithmetical point of view, of partnership settlements, bills, monthly statements and pay roll work is taken up. Rapid calculation is emphasized throughout the course.

SECRETARIAL 2. Penmanship: The principles and practice of muscular movement writing.

SECRETARIAL 3. Spelling: The study of 2,500 business and technical words, their spelling, meaning and use.

SECRETARIAL 21. Office Practice: A study of office methods, handling of mail, use of telephone, filing, duplicating, and general routine work. Recitations and practice. (No credit if taken in connection with Typewriting 23.)

Credit as separate course in the Summer Sessions, 2 hours.

DEPARTMENT OF ATHLETICS AND PHYSICAL TRAINING

Director: Robert E. Thorn

Medical Adviser: Dr. B. A. Montgomery

Instructor for Women: Miss Marietta Riseley

All forms of athletics at the college are under the direct supervision of the athletic director and medical adviser. The coach, who is a regular member of the faculty, accompanies the teams on all trips away from the college.

By this arrangement the college aims not only to foster and encourage athletics by providing a coach of wide athletic experience, but also to safeguard the health and mind of the students by placing them under the instruction and care of a competent and responsible official of the college. Systematic physical training according to sound physical hygienic principles is offered to all, although a general participation in outdoor and indoor athletics is encouraged. Students are permitted to remain on the athletic teams only so long as athletics do not interfere with the pursuit of their studies. The rules governing inter-collegiate contests apply to all athletic teams. The forms of athletics in which the college participates are foot-ball, basket-ball, base-ball, track and tennis. The control of athletics is in the hands of an Athletic Committee appointed from the Faculty by the President. The direct management is by a student manager working under a joint committee of seven; two members from the Faculty, two members from the Alumni and three members from the Student Body.

ATHLETICS FOR WOMEN

The opportunity for physical development is too often confined to men. Grove City College believes that it is equally important that physical training be provided for young women and for that

reason requires that all young women take some regular course in physical training. The work is in charge of Miss Riseley, who has spent three years in special preparation for this work. Various forms of exercise may be elected; such as tennis, basket-ball, swimming, base-ball, folk dancing, aesthetic dancing, or formal gymnastics. In connection with the courses in swimming for young women, a special dressing room equipped with hair dryers and other conveniences is provided in the gymnasium. The gymnasium, which is entirely modern and fully equipped, has added much to the physical training of the young women. The building is given over completely to the ladies for four full afternoons each week.

The regular gymnasium costume is as follows: black serge plaited bloomers, all white middy blouse, black tie (triangular or square), black stockings, and high white gymnasium shoes.

Students who desire to take a swimming course are advised to wait until arriving at college to purchase the regulation suit.

ATHLETIC EQUIPMENT

The Gymnasium is located on a large athletic field which contains a one-third mile track surrounding a foot-ball field and an excellent base-ball diamond. The field is a natural ampitheater, stands being provided with a seating capacity for several thousand spectators. It is enclosed with a metal and wire fence of modern construction. In addition there are being constructed on the main campus five tennis courts. They will represent the most improved tennis court construction. In addition to the courts on the main campus there are two courts located near Memorial Hall, the dormitory for men.

GROVE CITY CONSERVATORY OF MUSIC

HERMANN POEHLMANN, Mus. D.

*Director and Professor of Piano and Vocal, and Supervisor of the
Piano and Vocal Teachers' Seminar*

GUSTAV MEHNER

Professor of Pipe Organ, Piano, Composition, Harmony, Forms

JENNIE HASKELL GLENN

*Instructor in Piano, History, Elements of Music,
Music Dictation*

ESTHER REYNOLDS

Violin and Viola

HAZEL McKINNEY

Intermediate Department

The Grove City Conservatory of Music is affiliated with Grove City College. It is under the directorship of Doctor Hermann Poehlmann, formerly professor in the Royal Conservatory, Dresden, Saxony. The courses of study provided are recognized by all capable of judging as the most approved of music schools generally. The high standard maintained in both instrumental and vocal music has brought the department into high repute among educated musicians. It has long been our ambition to afford facilities for instruction in music equal to those found in the larger Eastern schools. We confidently affirm that so far as the matter of instruction is concerned students have as good advantages for a musical education in Grove City College as in the very best conservatories of music.

ADMISSION AND CLASSIFICATION

All the various subjects in the Music Conservatory, including Voice, Piano, Violin, Harmony, Counterpoint, Composition, etc.,

are taught from the first step up to the special coaching of artists. Each applicant must pass an examination in order to be placed in the proper grade. Students may enter at any time, though it is desirable, especially for the *regular course students*, that they *should begin in the fall term*. All beginners are expected to take besides their principal study, Elements of Music.

All students who are taking the full course in Music will be required to have at least freshman collegiate standing.

BACHELOR OF MUSIC

The College has felt the need of a Music Course which would combine a certain amount of literary work with the music and would lead to a baccalaureate degree. The course outlined below offers an excellent musical education and also gives a thorough training in literary courses necessary for the well educated person.

The entrance requirements for this course are completion of a regular four year high school course or its equivalent.

Prospective music teachers may use their elective privilege by taking courses in the Department of Education and thus qualify for the College Provisional Certificate upon graduation.

Plan of the Course for the Degree of Bachelor of Music Piano as the Major Study

FRESHMAN YEAR

English 11, 12, 13 and	
Oratory 11, 12, 13.....	9 hours
History 21, 22, 23.....	9 hours
Piano	12 hours
Elements of Music.....	2 hours
Harmony	4 hours
History of Music	3 hours
Physical Training	3 hours
Recitals*	

JUNIOR YEAR

Modern Language	9 hours
Psychology	6 hours
Bible	3 hours
Piano	12 hours
Harmony	2 hours
History of Music	3 hours
Counterpoint	6 hours
Duets	3 hours
Physical Training	3 hours
Music Elective	6 hours
Recitals*	

SOPHOMORE YEAR

Modern Language	9 hours
English	9 hours
Piano	12 hours
Harmony	6 hours
History of Music.....	3 hours
Forms	6 hours
Duets	3 hours
Physical Training	3 hours
Recitals*	

SENIOR YEAR

Bible	9 hours
Piano	12 hours
History of Music.....	3 hours
Composition	6 hours
Duets	3 hours
Physical Training	3 hours
Literary Elective	18 hours
Music Elective	6 hours
Recitals*	

* Recitals are required of all students and comprise:

Dictate	2 periods per week
Chorus	1 period per week
Schubert	1 period per week
Choir	1 period per week

The following changes in the plan above are made when some Major beside Piano is chosen:

Organ Major: Freshman Year is the same as for Piano Major.

Violin Major: Freshman Year has Violin (2 lessons) in place of History.

Vocal Major: Freshman Year has Vocal (2 lessons) in place of History.

Organ Major, Violin Major or Vocal Major: In the Sophomore, Junior and Senior Years, the Organ, Violin or Vocal Major (2 lessons) is substituted for one lesson in Piano.

MUSIC ELECTIVES

For prospective teachers of Piano, the Music Elective of the Junior year is Teachers' Instruction; of the Senior year is Teachers' Instruction and Teaching.

For prospective teachers in the Public Schools, the Music Elective of the Junior and Senior years is Chorus and Conducting.

For the prospective "Music Artist," the Music Elective of the Junior and Senior years is further work in the major subject.

TUITION

The tuition for the Bachelor of Music Course is sixty-five dollars (\$65) per term when Piano is the major subject and seventy-five dollars (\$75) per term when the major subject is Organ, Violin or Voice.

Practice periods are additional to the tuition and are at the rate of one dollar and fifty cents (\$1.50) a period per term.

THREE YEAR COURSE IN MUSIC

In addition to the course leading to the degree of Bachelor of Music, a Three Year Course in Music is offered. Students in this course must attend three years in succession in order to receive the diploma.

Diplomas or certificates are given after the successful completion of any one of the courses prescribed in the various departments. They are conferred on those only who complete a

full course and have attended the department at least three years. Those who have attained the Teachers' Diploma in Piano, Voice, Theory or Pedagogy, are then prepared to do advanced work and may secure diplomas in courses of study which will prepare them for independent development as pianists, violinists or vocal soloists.

Diplomas or certificates will be given:

A. For ability as teacher of piano, to students of the Piano-Seminar who have shown remarkable aptness in teaching, who have had for one year, at least, a class in theoretical piano instruction, one year supervised instruction (giving of instruction to children, under care of the Director), have reached studies by Cramer, and have had at least two years' work in History and two years' work in Harmony and Forms of Music. According to the higher or lower ability in piano playing, different degrees are given, such as, for teaching beginning grade, for teaching lower and advanced middle grades, and for teaching lower and advanced higher grades.

In order to receive a certificate for ability as teacher of piano (a) beginning grade, the student must have finished two books from Cramer (Germer); Jensen, op. 32, book 1; Heller, Vol. II; Czerny, portions of Vols. II and III; Bach, Preludes; Mendelssohn's Songs Without Words; easier pieces from Schubert, Weber, Schumann, and at least one of two sonatas by Haydn, Mozart, Beethoven.

b. Low middle grade: Three books from Cramer; Jensen, op. 32, books 1 and 2; Heller, Vols. II and III; Czerny, Vols. II and III; Bach, some French suites or two-voice inventions; pieces like the above and some modern composers.

c. Advanced middle grade: Four books from Cramer; Jensen, op. 32, books 1, 2 and 3; Heller, Vol. V; Czerny, Vols. II and III; Bach. Harder pieces from Mendelssohn, Schubert, Weber, Schumann, and other modern composers.

d. Low advanced grade: Cramer; Clementi: Gradus ad Parnassum; Jensen, op. 32; Heller, Vol. IV and Czerny, Vols. II and III; Bach. More difficult pieces from preludes; pieces from classical, romantic and modern masters.

B. Fitness for independent development as a pianist, to such piano players as have reached the Seventh Grade in the Piano Course, have studied Counterpoint one year, and have shown such a thorough grasp of the subject that their future development may, without risk, be left to themselves.

C. For distinguished ability as a pianist, to such piano players as have reached the Eighth Grade of the Piano Course, have completed the work in Counterpoint, and have arrived at a high degree of proficiency in execution.

D. For ability as a teacher of vocal music, to students of the Voice-Seminar who have shown especial aptness in training the voice, have reached the Sixth Grade in Voice Culture, and have had two years' work in Music Theory and one year in Piano.

E. Fitness for independent development as concert singer, to students of voice culture, who have reached the Seventh Grade of the Voice Culture, the Fourth Grade in the Piano Course, have had two years' work in Music Theory, and have arrived at such a degree of proficiency in the use of the voice and such understanding of vocal principles and methods that their future development may without risk be left to themselves.

F. For ability as church soloist, to students of voice culture who have finished the Sixth Grade of the vocal course, Third Grade in Piano and have had two years' work in Music Theory.

This diploma is granted to members of the literary department who have taken music as additional work.

G. For distinguished ability as concert and oratorio singer, to students of voice culture who have finished the Seventh Grade of the Voice Course, and have reached the Fourth Grade of the Piano Course, have had two years' work in Music Theory, and have acquitted themselves with high credit before the public.

H. For ability as opera singer, to students of voice culture whose voices have been developed in the technique necessary for opera singing and have attained such a degree of proficiency that the artistic rendering of the most difficult dramatic passages is satisfactorily accomplished, and who have particularly attained accuracy in ensemble and have given evidence of unusual dramatic power.

I. For ability as teacher of violin, to students of the Violin Séminar who have reached the Fourth Grade in the Violin Course, the Third Grade in the Piano Course, and have had two years' work in Music Theory.

K. Fitness for independent development as violinist, to such as have finished the Fourth Grade in the Violin Course, have reached the Fourth Grade in the Piano Course, and have had two years' work in Music Theory.

L. For ability as solo or concert violinist.

M. For ability as teacher of Music Theory, to students of Music Theory who have attained extensive knowledge of Harmony, and have shown special aptness in all their studies in the theory of music and have reached the Sixth Grade in the Piano Course.

Certificates of Dismissal are given after one year's attendance to such as take a single study in any one course.

Diplomas of distinction will be awarded as an acknowledgement of superior talent, eminent application, and marked faithfulness, to only such as have completed a full course.

As most of the students will teach later, special care is taken to train pupils for the profession of teaching Piano, Voice and Harmony. The course provided along these lines is the most complete that can be given.

JUNIOR WORK

A student is entitled to enter the Junior Class in Piano if he has reached the Fifth Grade,—having studied thoroughly at least the following Etudes: Doering, op. 44, books 1 and 2, op. 8, books 1 and 2; Czerny, Vol. 1, (Germer), Vol. II, 1 part; Heller, Vols. I and II; Germer, op. 35; Bach, Preludes; Bertini, op. 29 and 32; Bach, two-voice inventions.

A student is entitled to enter the Junior Class in Vocal if he has reached the Third Grade in Piano, the Sixth Grade in Vocal, and is ready to begin Harmony instruction.

RECITATIONS

At least two recitations are required weekly in all the leading studies of any course. In Harmony the students recite daily in all beginning classes; in the advanced classes they receive three lessons and two lessons weekly, according to their advancement. Classes in Teachers' Instruction and in Forms recite twice a week. In Music Dictation, beginning classes recite daily, advanced classes three and two times a week. Chorus, Ensemble and Music History recite once or twice a week.

Special attention is called to the fact that almost twice as much instruction is given for the tuition paid as at any other college or music school. It has been found especially beneficial for beginners to recite at least three times a week in such leading subjects as Piano, Voice, Harmony, etc. We confidently believe that this departure is very much to the advantage of the students of the Music Department.

THE ORCHESTRA

A fine orchestra is maintained by the Music Department under the direction of Dr. Poehlmann. New students wishing to join this orchestra for the instruction they will receive in various instruments are admitted on a term fee of \$5. After one year's membership no fee is charged.

MODEL STUDENTS

A limited number of boys and girls will be received into the Music Department as model students for teachers in Piano, Violin, and Voice who are receiving supervised instruction in teaching. Those who receive this instruction will be charged \$3 a term for two lessons each week. Application should be made to the Director, before the opening of the session, by all those desiring places.

REGULATIONS CONCERNING STUDENTS

Music students are not allowed to take private lessons from any music teacher who is not connected with the College, nor to take part in performances of any kind without permission of the Director.

Each student is required to pay for sheet music used in the course; chorus and duet books are furnished by the conservatory.

Each beginning student is required to take at least one year's lessons from Professor Mehner or Miss Glenn. If sufficient progress has been made, the student is recommended to Dr. Poehlmann for enrollment in his classes.

At the end of each term, grades are given in all courses of that term; students are graded on application, progress, and talent. The grade values are: A, very good; B, good; C, fair; D, poor; E, very poor.

Students, who for two successive terms are graded "D" in talent in a major subject are not eligible to continue the course leading to graduation.

Holidays, determined by the Faculty of the College, are observed by the Conservatory of Music. Lessons set for such days are not made up at other times.

Students who come from nearby towns for lessons in the various departments are required to pay full tuition and are given one hour lessons each week instead of two half hour lessons as regularly given to the students of the Conservatory of Music.

Each student is required to take a course of at least three years.

Some students under certain conditions, may be excused from a subject.

Those who enter in the winter term must complete the year's work during the summer term.

No new class in Teachers' Instruction will be formed in the spring.

The course during the summer term is primarily for special work only and for those regular course students who have work to make up.

Students who are here for only the summer term may have instruction in all branches.

The general regulations as to the care, comfort and conduct of students in the Literary Department are binding upon the students of the Conservatory of Music. These regulations in-

clude the residence of all students not from Grove City in the dormitories at the College, their attendance upon all the religious exercises, including the daily and Sunday chapel services, and their co-operation in all interests which make for the maintenance of a good moral and Christian atmosphere.

THE COLLEGE

The work of the College Department does not prove a hindrance to the interests of the Conservatory of Music, but rather a help. The enthusiasm and earnest purpose of the large number of men and women in the College serve as a stimulus. Indeed, the two departments are mutually stimulating, and many parents prefer to have their children take their work in Music under influences of this kind. The same interest and care which are exercised over the students of the College are manifested in the management of the Conservatory of Music.

Students of the Conservatory of Music are permitted to take studies in the Literary Department, by the payment of three dollars (\$3.00) extra a term for each credit hour in college subjects. No reduction is made when students of the Conservatory of Music take up Art, Commercial Branches or Stenography and Type-writing.

COURSES OF STUDY

PIANO—Piano.

Elements of Music.
Harmony.
Musical Forms and
Analysis.
Counterpoint.
Music History.
Ensemble.
Chorus.
Music Dictation.
Psychology.

VIOLIN—Violin.

Piano.
Elements of Music.
Harmony.
Counterpoint.
History.
Musical Forms (Lectures)
Ensemble.
Chorus.
Psychology.
Music Dictation.

VOICE—Voice.

Piano.
Elements of Music.
Harmony.
Musical Forms (Lectures).
Music History.
Ensemble.
Declamation.
French, German and Italian.
Music Dictation and Chorus.
Psychology.

MUSIC THEORY—Elements of

Music.
Harmony.
Counterpoint.
Musical Forms.
Composition.
Piano.
Music History.
Chorus.
Music Dictation.

VOICE-SEMINAR—Voice.
 Theory of Voice Culture.
 Supervised Voice Culture Instruction, one year.
 Elements of Music.
 Harmony.
 Piano.
 Counterpoint.
 Musical Forms (Lectures).
 Ensemble.
 Chorus.
 Declamation.
 Music Dictation.
 Psychology.

VOICE (OPERA)—Voice.
 Supervised Violin Instruction.
 Piano.
 Elements of Music.
 Harmony.
 Counterpoint.
 Musical Forms (Lectures).
 Music History.
 Ensemble.
 Chorus.
 Music Dictation.
 Psychology.

PIANO-SEMINAR—Piano.
 Theory of Piano Instruction, (Lectures), two years.
 Supervised Piano Instruction, one year.
 Elements of Music.
 Harmony.
 Counterpoint.
 Composition.
 Musical Forms (Lectures).
 Ensemble.
 Chorus.
 Music Dictation.
 Psychology.

VIOLIN-SEMINAR—Violin.
 Interpretation of Opera.
 Dramatic Rendition.
 Elements of Music.
 Harmony.
 French and German.
 Musical Forms (Lectures).
 Music History.
 Ensemble.
 Chorus.
 Music Dictation.
 Psychology.

PLANS OF THE COURSES

PIANO COURSE

Piano playing has always been regarded as a function of the fingers, and training of the finger muscles for independence and quality has been the foundation for all technical practice. But within recent years a new principle has been sought by various theorists. Almost simultaneously all found themselves involved in the same problem—relaxation, its value and application. Among others, two great works, the books of Breithaupt and of Steinhausen, were published. Both discerned in the great pianist the free and natural movement of the arm as the source of technic and referred this idea to its physiological sources. Breithaupt, the discoverer of most of the actions, has systematized them in their three aspects—physical, psychological and aesthetic. The problems of relaxation and weight are solved in his works and become the basis of a far-reaching system.

Breithaupt says: "The art of piano-playing is not striking, hammering and thrusting, but an art of sensitive, nervous fingertips, velvet hands, and soft, round, complete movements of an elastic playing organism and finally the expression of that ever

immeasurable and indeterminate tone-ideal, that lives half perceived, half unperceived in the mind."

This wonderful method of weight-technic which all players of sonorous tone, such as Busoni, Paderewsky, Risterchi have used more or less unconsciously, is used in the work of the Conservatory.

FIRST YEAR

First Term (Fall).....	Piano. Elements of Music. Dictate, Chorus, History.
Second Term (Winter).....	Piano. Harmony. Dictate, Chorus, History.
Third Term (Spring).....	The same.

JUNIOR YEAR

First Term	Piano. Psychology. Harmony. Forms. Teachers' Instruction. Dictate, Chorus, History, Duets.
Second Term	The same.
Third Term	The same.

SENIOR YEAR

First Term	Piano. Harmony. Forms. Teaching, Teachers' Instruction. Dictate, Chorus, History, Duets.
Second Term	Piano. Counterpoint, Forms. Teaching, Teachers' Instruction. Chorus, History.
Third Term	The same.

VOCAL COURSE

FIRST YEAR

First Term (Fall).....	Piano. Elements of Music. Dictate, Chorus, History, Elocution.
Second Term (Winter).....	Harmony, Piano. Dictate, Chorus, History, Elocution. German or Italian.
Third Term (Spring).....	The same.

JUNIOR YEAR

First Term	Piano. Psychology. Harmony, Teachers' Instruction. Dictate, Chorus, History. Elocution, German, (French or Italian).
Second Term	The same. Duets.
Third Term	The same.

SENIOR YEAR

First Term	Harmony, Teaching, Forms. Dictate, Chorus, History, German or French. Duets.
Second Term	Counterpoint, Teaching, Forms, Chorus, History, Duets.
Third Term	The same.

VIOLIN COURSE

FIRST YEAR

First Term (Fall).....	Elements of Music, Piano. Dictate, Chorus, History.
Second Term (Winter).....	Harmony, Piano. Dictate, Chorus, History.
Third Term (Spring).....	The same.

JUNIOR YEAR

First Term	Harmony, Dictate, Chorus, History, Orchestra.
Second Term	The same.
Third Term	The same

SENIOR YEAR

First Term	Harmony, Teaching, Forms, Dic- tate, Chorus, History, Orchestra.
Second Term	The same.
Third Term	The same.

ORGAN DEPARTMENT

The demand from many quarters for pipe organ instruction, and especially by those who are qualifying to become church organists has led to the installing of a very fine pipe organ in the Music Department. The organ is of the latest design, pneumatic action throughout, and is especially adapted to the work of instruction.

Herr Gustav Mehner is splendidly equipped to train pipe organists. He was four years under some of the most noted organists of Europe and is a musician and artist of the highest standing.

The regular fee for instruction is \$45 for a term of three months.

A fee of \$5 per term is charged for practice periods of one hour per day. A special auditorium is set aside for this work, so that considering the expense of heating and lighting and the necessary expense of an electric motor for working the bellows, the fee for this branch is very reasonable.

The student should not commence the study of this instrument until a good practical knowledge of the piano has been obtained.

As the organ is principally used in connection with the church service, special attention will be given to the art of service accompaniment. Instruction in the mechanism of the pipe organ will be given to all organ students.

Diplomas will be given as follows: (a) For ability as church organist to such organ students as have reached the Fifth Grade in the Organ course, have completed the work in Harmony, have shown sufficient knowledge in transposition and improvisation, are acquainted with the mechanism of the organ. (b) For ability as solo organist to such organ students as have completed the Sixth Grade in the Organ Course, have shown sufficient knowledge in Theory of Music and are acquainted with the mechanism of the organ.

VOCAL DEPARTMENT

Our vocal instruction is based on the so-called pure Italian method. Therefore the fundamental principles of vocal art, such as breathing, position of larynx, tongue and mouth—in short, all functions of the tone-producing and tone-strengthening organs—will receive the most careful and patient attention. The result will be a normal, well placed, easy flowing, resonant and beautiful tone. This is the most important and most difficult part of voice culture. While the Italian method, which treats the voice as a beautiful instrument only, forms the necessary basis of the vocalism, it is absolutely inadequate for the proper rendition of modern music. This demands a perfect treatment of all vowels, consonants, words, phrases and sentences, of all modulations, of emotions and sentiments as indicated by the underlying poem, of which the music is but a higher expression. Therefore, the vocal art requires the most patient and faithful study, and pupils must ever bear in mind that while "Art is long and time is fleeting," vocal art is the longest, the deepest, the most difficult, as it is the most beautiful of the arts.

Sacred Concert

Selections from the Oratorio "Elijah"

Given by the

CHORAL SOCIETY

Under the Direction of Dr. Hermann Poehlmann

SUNDAY, MARCH 5, 1922

PROGRAM

Invocation.....	Dr. W. G. Reagle
Recitative with Chorus.....	"As God the Lord of Sabaoth Liveth"
Chorus.....	"Baal, We Cry to Thee"
Recitative.....	"Call Him Louder"
Chorus.....	"Hear Our Cry, O Baal"
Recitative.....	"Call Him Louder"
Chorus.....	"Baal! Hear and Answer"
Recitative and Air.....	"Draw Near, All Ye People"
Choral.....	"Cast Thy Burden Upon the Lord"
Recitative.....	"O Thou Who Makest Thine Angels Spirits"
Chorus.....	"The Fire Descends From Heaven"
Air.....	"Is Not His Word Like a Fire"
Arioso.....	"Woe Unto Them Who Forsake Him"
Recitative.....	"O Man of God"
Recitative and Chorus.....	"Thou Hast Overthrown Thine Enemies"
Chorus.....	"Thanks Be to God"

SOLOISTS

Mrs. Gertrude Hassler, Mrs. George Dale, Mr. Foster Jones, Mr. Percival Allen.

CHORUS

Sopranos—Mrs. Hassler, Misses Hodge, Detrick, Moser, Campbell, Parker, Stoughton, Wood, Makepeace, Davis.
Altos—Mrs. Dale, Misses Harshaw, Offutt, Albin, Coulter, Brunton, Younggren, Anderson, Vance, McKinney, Smith.
Tenors—Messrs. Allen, Wiley, Smith, Lightner, Diefenderfer, Daugherty, Osborne, Cleeland.
Basses—Messrs. Poehlmann, White, Albin, Hill, Henderson.

ORCHESTRA

Violin—Misses Boots, Coleman, Craig, Ghost, Robinson, Jamison, Mr. Master.
Viola—Miss Reynolds.
Cello—Mr. Simmons.
Bass—Mr. Gibson.
Clarinets—Messrs. Williams, Emery.
Horns—Messrs. Black, Simmons.
Cornets—Messrs. Black, Thompson.
Organ—Professor Mehner.

Commencement Concert

Given by the

MUSIC GRADUATES OF GROVE CITY COLLEGE

Assisted by the Home Orchestra

Under the Direction of Dr. Hermann Poehlmann

MONDAY, JUNE 12, 1922

PROGRAM

- Overture—"If I Were King".....*A. Adam*
 Concert Op. 25 for Piano and Orchestra, II and III Movement Andante
 Presto. Molto allegro.....*F. Mendelssohn*
 MISS ESTHER YOUNGGREN
- Aria: "Wherever I Go, I Command" from the Opera "Manon"....*J. Massenet*
 MISS MARGARET HODGE
- Piano Soli: Nocturno in E flat Major.....*F. Chopin*
 Butterfly—Etude de Concert.....*C. Lavallee*
 MISS HELEN VANCE
- Vocal Duet: "The Night".....*L. Mililotti*
 MISSES FLORENCE DETRICK AND MARGARET HODGE
- Piano Solo: II Mazurka.....*B. Godard*
 MISS THELMA COAST
- Violin Solo: Theme with Variations.....*C. DeBeriot*
 MISS ERLA COLEMAN
- Soprano Soli: "My Dreams".....*F. Tosti*
 "Boat Song"
 "Waltz Song".....*H. Ware*
 MISS FLORENCE DETRICK
- Piano Soli: "Dreams of Love" (Nocturne No. 3).....*F. Liszt*
 Two Etudes: Op. 10, No. 5 and Op. 25, No. 9.....*F. Chopin*
 MR. AARON GROSS
- Vocal Solo: "Shadow Song".....*J. Meyerbeer*
 MISS FLORENCE BRECKENRIDGE
- Piano Duet: Slavic Dance.....*A. Dvorak*
 MISSES HELEN VANCE AND THELMA COAST

Schubert Recital

Sakuntala—Overture *C. Goldmark*
ORCHESTRA

Concerto for Piano and Orchestra.....*B. Godard*
I. Mov.—Andante, Allegro vivace
II. Mov.—Andante
III. Mov.—Allegretto
MR. AARON GROSS

Vocal Soli: "My Little Love".....*E. Hawley*
"Forever Mine".....*V. Cantor*
MISS FLORENCE DETRICK

Violin Solo: Concertino op. 377.....*C. Bohm*
MISS ERLA COLEMAN

Piano Soli: Soires de Vienne, No. 6.....*Schubert-Liszt*
Polonaise*G. Mehner*
PROFESSOR MEHNER

Vocal Trio: "The Violet".....*C. Curschman*
"Maiden Don't Listen" (Canon).....*C. M. v. Weber*
MISSSES LOIS CAMPBELL, JEAN MOSER, DOROTHY PARKER

Vocal Soli: "Violets for Thee I Gather".....*E. Meyer-Helmund*
"Winter Bells".....*A. Wooler*
MISS MARGARET HODGE

Cornet Solo: All' Italiana.....*A. Foerster*
MR. JAMES BLACK

French National Defile March.....*A. Turlet*
ORCHESTRA

Open Recital

Given by the

INTERMEDIATE AND MODEL DEPARTMENTS

of the Music Department of Grove City College

MONDAY, JUNE 5, 1922

PROGRAM

Piano Duet: Immortelles, No. 2.....	F. Spindler
Misses White and Montgomery	
The Four Leaf Clover, Polka.....	E. Engelmann
E. Martin	
Little Indian Boy Waltz.....	F. Dietz
Alice Montgomery	
Little Hostess Waltz.....	L. Nord
Marian White	
Piano Duet: Good Humor.....	H. Engelmann
E. Martin and M. Fryman	
Polka.....	H. Engelmann
R. Cleeland	
Violin Solo: March Militaire.....	J. Conte
V. Koerner	
Piano Duet: Dreams of Youth.....	A. Sartorio
V. Hinds and M. Monroe	
Vocal Solo: "Once".....	A. Hervey
E. Henderson	
Violin Solo: Flower Song.....	G. Lange
E. Allen	
Rippling Brooklet.....	H. Dellafield
S. Williamson	
Redowa.....	H. Engelmann
M. Fryman	
Vocal Solo: "Fair Killarney Across the Sea".....	W. Rolfe
A. Harmon	
Vocal Duet: When Life is Brightest.....	C. Pinsuti
V. Jamison and E. Henderson	
Minuet.....	W. Mozart
T. Williamson	
Violin Solo: Wild Flower.....	F. Losey
W. Lauderdale	
My Bonnie Laddie.....	G. Benson
M. Cleeland	
Piano Duet: Fantasiepiece.....	C. Gurlitt
T. and S. Williamson	
Vocal Solo: "Sweetheart".....	A. Powell
M. Jamison	
Moonlight-Idyl.....	J. Morris
M. Hosack	
Trio: Gavotte.....	S. Constantino
T. Williamson, M. Fryman, S. Williamson	
Piano Duet: The Rose Queen.....	L. Alves
E. Armitage and M. Cleeland	
Piano Solo: The Mocking Bird.....	C. Kern
B. Monroe	
Vocal Solo: "The Broken Pitcher".....	H. Pontet
V. Jamison	
Piano Solo: Water Nymphs.....	H. Engelmann
E. Armitage	
Vocal Duet: On the Moon-lit Stream.....	A. Geibel
M. Jamison and A. Harmon	
Piano Duet: In Martial Spirit.....	E. Christiano
M. Elliott and L. Hosack	
Piano Duet: Stand by the Flag March.....	R. Stults
M. Hosack and B. Monroe	

RATES OF TUITION PER TERM OF TWELVE WEEKS

Private Lessons

VOCAL

Instruction given by Dr. Poehlmann

One term's instruction (two half hour lessons a week).....	\$45.00
One term's instruction (one half hour lesson a week).....	25.00

Instruction given by an Assistant

One term's instruction (two half hour lessons a week).....	40.00
One term's instruction (one half hour lesson a week).....	22.00

PIANO

Instruction given by Dr. Poehlmann or Prof. Mehner

Two half hour lessons a week.....	\$45.00
One half hour lesson a week.....	25.00

Instruction given by an Assistant

Two half hour lessons a week.....	40.00
One half hour lesson a week.....	22.00

ORGAN

Instruction given by Prof. Mehner

Two half hour lessons a week.....	\$45.00
One half hour lesson a week.....	25.00

VIOLIN

Instruction given by Miss Reynolds

Two half hour lessons a week.....	\$45.00
One half hour lesson a week.....	25.00

OTHER EXPENSES

Harmony (in class).....	\$20.00
Counterpoint (in class of two).....	25.00
Composition (in class of two).....	30.00
Teachers' Instruction in Piano.....	15.00
Teachers' Instruction in Voice.....	15.00
Dictation and Ear Training.....	10.00
Forms and Analysis.....	15.00
Piano Accompanist's Course.....	15.00
Elements of Music.....	10.00

DUET LESSONS IN PIANO

One half hour lesson with one of the Professors.....\$ 6.00

Piano duets are free for all students who have Piano and Harmony.

Chorus is free for all music students.

Music History is free for all music students.

Piano practice periods in the Music Hall, 40 minutes, for term.....	\$1.50
For Music Library, Sheet Music for Chorus and Ensemble.....	1.00
Fees for certificates of any kind.....	2.00
Additions or duplicates.....	1.00
Organ practice periods, in Carnegie Hall, 1 hour, for the term.....	5.00
Certificate of Dismissal.....	1.50
Diplomas	5.00
Special Examinations	1.00

Tuition is payable invariably in advance. Students who have not paid their College bills or arranged for their payment, will be excluded from classes after the first week of the term. No matriculation or registration fees, or entrance fees to college athletic games are charged. A reduction of \$5 is made in the tuition for two lessons per week in Vocal, Piano, Organ, or Violin to the student who has already paid tuition for two lessons per week in another one of these branches.

GROVE CITY SCHOOL OF ART

Miss Margaret Williams

The Grove City School of Art was organized in 1893, since which time there has been a manifest growth of art sentiment in the community. It is closely affiliated with Grove City College.

Miss Margaret Williams who has charge of the School of Art, is a graduate of the Philadelphia School of Design. After completing her four years course, Miss Williams took an additional year in specializing in various fields. She was the honor graduate of her class and won high distinction throughout her course. After completing her work in the Philadelphia School of Design, Miss Williams was a city supervisor of school art. She later studied in Europe and has wide experience both as a teacher and as an artist.

It has been the purpose of Grove City College in the maintenance of the School of Art to stimulate an interest in the fine arts in its various forms and phases. The growing realization of the importance of this field of work is indicated by the recognition that is being given art in the public schools. It is scarcely too much to say that there are few fields of endeavor which have higher cultural value than the one of fine arts. A strong appeal is made to the creative faculties as well as to the powers of representation.

The Normal Art Course as outlined in the catalogue is designed primarily to give the student a knowledge of the various forms of art and to fit him for work in the public schools. It is subject to variation and those students who plan to continue in the work will be given such training as will best fit them for advanced study.

The following is a brief outline of the work compassed in the Normal Art Course: lead pencil drawing after foliage and flowers

from nature, with training in observation in plant growth for use in flower painting from nature; charcoal drawing from still life as exercises in composition and for study of varied color values; brush drawing in sepia and charcoal gray, from foliage, casts and still life; practice for the handling of water color; historic ornament; time sketching; perspective; antique drawing from casts of the human body; water color from the flat and from nature, oil from the flat and from nature, china decorating; art history; outdoor sketching.

For those desiring to teach art in the schools, special work is outlined in mechanical drawing, design, historic ornament, figure and animal drawing, pictorial representation, art history, etc.

For those who wish to specialize in any field an opportunity is afforded. Special courses are offered in china decorating, water color, oils, design and sketching.

The course in sketching makes a strong appeal to those who expect to enter the teaching profession, to those interested in business in various phases, as well as those interested in engineering and illustration. This course is arranged to meet once each week. Among the subjects included in the sketch classes will be object and cast drawing, portrait sketching, costume model sketching, poster work, advertising, business, etc.

In china decorating stress will be placed on the making of original designs and applying the same to china. All of the latest methods of china decorating including the dusting color, enamel work, etc., will be taught. There will be an opportunity to secure training in the decoration of lamps, parchment shades and other products.

NORMAL ART COURSE

First Year

FIRST TERM

Historic Ornament
Application of Historic Ornament
Drawing or Painting from Flowers
Conventionalization
Cast Drawing
Theory or Color
Sketching
Perspective, Mechanical and Freehand
Physical Training

SECOND TERM

Geometric Construction
Applied Design
Cast Drawing
Still Life Painting
Lettering and Commercial Advertising
Sketching
Art History
Physical Training

THIRD TERM

Applied Design
Painting in Oil
Drawing from Antique
Painting in Water Color
Illustration
Art History
Physical Training

Second Year

FIRST TERM

Applied Design
Painting in Oil
Figure Construction
Drawing from Antique
Painting in Water Color
Modeling
Sketching
Psychology
Physical Training

SECOND TERM

Applied Design
History of Arts, Furniture, Costume
Painting in Water Color
Drawing from Antique
Painting in Oil
Modeling
Sketching
Psychology
Physical Training

THIRD TERM

Applied Design
 Painting in Water Color
 Drawing from Antique
 Arts and Crafts
 Blackboard
 Special Methods
 Modeling
 Illustration
 Psychology
 Physical Training

Note books must be submitted and examinations in historic ornament, perspective and history of art passed successfully to secure graduation.

All students of this class will be given opportunity for practice teaching.

The regular course in the fine arts is compassed by the average pupil in two years, if the entire time is spent in the studio. This includes four regular lessons a week from the instructor and personal criticisms in all the work done in her absence. The tuition for the full course work is forty dollars (\$40) a term. To those not wishing to follow the regular course of work two lessons a week will be given for twenty dollars (\$20) a term. Students who desire to take literary work can do so by paying three dollars (\$3) for each credit hour in collegiate subjects. Art students who take music pay the full tuition in the department.

RATES OF TUITION

Course in Fine Arts.....	\$40.00
Course in School Art.....	40.00
China Painting	20.00
Water Color	20.00
Oil	20.00
Design	20.00
Sketching	10.00

DEGREES AND HONORS

At the annual meeting of the Board of Trustees, June 15th, 1922, the following degrees were conferred; they were awarded at the Commencement, June 15th, 1922.

Bachelor of Arts

John Irwin Barnard.....	Dayton, Pa.
Marjorie Estella Davidson.....	Evans City, Pa.
Martha Hazel Dunlap.....	Harrisville, Pa.
Arthur Robert McBride.....	Grove City, Pa.
Joseph Scott Morledge.....	Grove City, Pa.
Margaret Louise Smith.....	Falls Creek, Pa.

Bachelor of Literature

Maude Opal Allison.....	Grove City, Pa.
Charlotte Lucile Campbell.....	Grove City, Pa.
Genevieve Marie Davis.....	Grove City, Pa.
Howard Raymond Dean.....	Mars, Pa.
Mary Helen Forrest.....	Grove City, Pa.
Annie Eliza Hazlett.....	Grove City, Pa.
Martha McCoy.....	Grove City, Pa.
Edithmarion Louise McElligott.....	Butler, Pa.
Mabel Elizabeth Munnell.....	Mercer, Pa.
Glenna Eliza Robbins.....	Grove City, Pa.
Martha Rose Shelley.....	Grove City, Pa.
Jane Florence Simmons.....	Grove City, Pa.
Frankie Eliza Smith.....	Falls Creek, Pa.
Steven Arvid Stepanian.....	Hartford, Conn
Margaret Eleanor Stewart.....	Coal Glen, Pa.
Esther Victoria Younggren.....	Ridgway, Pa.

Bachelor of Science

Wade Eugene Baker.....	Raymilton, Pa.
Albert Woolsey Barber.....	Bellwood, Pa.
Joseph Harold Barnard.....	Dayton, Pa.
Eugene Paul Buxton.....	Valencia, Pa.
Ralph Eugene Douth.....	Polk, Pa.
Quay Dean Ellenberger.....	Cowansville, Pa.
George Allen Fails.....	Livermore, Pa.
Rollin Ellsworth Filer.....	Grove City, Pa.
Mary Redmond Hazlett.....	Grove City, Pa.
Harry Henshaw.....	Houtzdale, Pa.
Wilmer Black Herron.....	Mercer, Pa.
Lloyd David Homer.....	Fredonia, Pa.
John Scott Kelso.....	Avalon, Pa.

Charles Fawcett Kutscher.....	Braddock, Pa.
Denton James Moon.....	Mercer, Pa.
Roscoe Butler Rumsey.....	Clintonville, Pa.
John Robert Sisley.....	Grove City, Pa.
Charles E. Wertman.....	Franklin, Pa.
Ralph Donald Williams.....	Grove City, Pa.
Charles Meigs Woodward.....	Indiana, Pa.

Bachelor of Science in Chemical Engineering

Charles LeRoy Patterson.....	Ellwood City, Pa.
Wendell Phillips Smith.....	Oil City, Pa.

Bachelor of Commercial Science

Paul Walter Anderson.....	Ridgway, Pa.
Paul Conley Augustine.....	Pittsburgh, Pa.
Christina May Hettenbaugh.....	Grove City, Pa.
Louis Wade Korona.....	Argentine, Pa.
John Russell McLaughlin.....	Shippensburg, Pa.
Kathleen Eleanore VanWoert.....	Donora, Pa.

Music

Thelma Matilda Coast.....	Grove City, Pa.
Erla Ocilla Coleman.....	Grove City, Pa.
Florence Mae Detrick.....	Butler, Pa.
Aaron Gross.....	Grove City, Pa.
Margaret Ellen Hodge.....	Grove City, Pa.
Helen Elizabeth Vance.....	Ligonier, Pa.
Esther Victoria Younggren.....	Ridgway, Pa.

Master of Arts in Cursu

William Blair Adams.....	Punxsutawney, Pa.
George Gould, '21.....	Grove City, Pa.
Homer Martin Boger Lehn.....	Grove City, Pa.

Master of Science in Cursu

John Howard Biles, '17.....	Danville, Ky.
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Doctor of Philosophy in Cursu

William James Bickett.....	Trenton, N. J.
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Doctor of Letters Causa Honoris

Wicklyff C. Lyne.....	Pittsburgh, Pa.
George M. Sleeth.....	Pittsburgh, Pa.

Doctor of Divinity Causa Honoris

Reverend Alfred Fowler.....	Philadelphia, Pa.
Reverend Frank Leon Hovis, '01.....	Indianapolis, Ind.

Doctor of Laws Causa Honoris

Honorable Joseph Buffington.....Pittsburgh, Pa

Honors

Magna cum laude—Lloyd David Homer, Glenna Eliza Robbins.

Cum laude—Wade Eugene Baker, Charlotte Lucile Campbell, Frankie Eliza Smith, Wendell Phillips Smith, Charles E. Wertman, Ralph Donald Williams.

Special Honors—In Chemistry, Eugene Paul Buxton, Wendell Phillips Smith, Ralph Donald Williams.

Honorable Mention—In English, Charlotte Lucile Campbell; In Biology, George Allen Falls; In Chemistry, Charles LeRoy Patterson; In Latin and French, Glenna Eliza Robbins.

Special Certificate in Oratory

Charlotte Lucile Campbell, Marjorie Estella Davidson, Mary Helen Forrest, Joseph Scott Morledge, Martha Rose Shelley, Margaret Eleanor Stewart.

Secretarial

The following students completed the Two Year Secretarial Course and received the certificate of the department:

Marie Borland.....	Rockland, Pa.
Margaret Boyd.....	Sandy Lake, Pa.
Lois Burnham.....	Strattonville, Pa.
Mary Campbell.....	Fredonia, Pa.
Frances Belle Daugherty.....	Belle Vernon, Pa.
Carolyn Dillon.....	Beaver, Pa.
Ruth Lucetta Dosch.....	Kittanning, Pa.
Anna Gertrude Fitzgerald.....	Beaver, Pa.
Margaret Garrett.....	Beaver, Pa.
Jane Gilliland.....	Pittsburgh, Pa.
Alice Marguerite Kuhn.....	Grove City, Pa.
Gertrude Elizabeth Lee.....	Painesville, Ohio
Jessie M. McCrae.....	Mercer, Pa.
Marie Meyers.....	Somerset, Pa.
Pearl Miller.....	Somerset, Pa.
Helen Carrie Montgomery.....	Freedonia, Pa.
Irene Moon.....	Mercer, Pa.
Lois Robinson.....	Kittanning, Pa.
Margaret Louise Smith.....	Falls Creek, Pa.

ROSTER OF STUDENTS

Post Graduates

Adams, W. B.	Punxsutawney, Pa.
Foltz, Ruth M.	Grove City, Pa.
Gould, George	Grove City, Pa.
Graham, Elfrieda C.	Grove City, Pa.
Kightlinger, Clifford V.	Townville, Pa.
Lehn, Homer M. B.	Grove City, Pa.
McLaughrey, William M.	Mercer, Pa.
McMullen, Genevieve	Grove City, Pa.
Moore, Jessie B.	Grove City, Pa.
Muller, Mabel K.	Grove City, Pa.
Orr, Mary Elizabeth	Erie, Pa.
Peterson, Robert E.	Bradford, Pa.
Pound, Laura	Grove City, Pa.
Richardson, Amelia L.	Kittanning, Pa.
Ruffner, Charles W.	New Bethlehem, Pa.
Studebaker, Mrs. J. J.	Slippery Rock, Pa.
Webster, Goodwin	Harveys, Pa.
Wood, Floyd G.	Grove City, Pa.

Seniors

Allison, Maud O.	Grove City, Pa.
Anderson, Paul W.	Ridgway, Pa.
Augustine, Paul	Pittsburgh, Pa.
Baker, Wade E.	Raymilton, Pa.
Barber, Albert W.	Bellwood, Pa.
Barnard, Harold	Dayton, Pa.
Barnard, John I.	Dayton, Pa.
Buxton, Paul E.	Valencia, Pa.
Cameron, Francis W.	New Castle, Pa.
Campbell, Charlotte	Grove City, Pa.
Coast, Thelma	Grove City, Pa.
Coleman, Erla	Grove City, Pa.
Cross, Webster Merle	Clintonville, Pa.
Davidson, Marjorie E.	Evans City, Pa.
Davis, Genevieve M.	Grove City, Pa.
Dean, Howard R.	Mars, Pa.
Detrick, Flossie	Butler, Pa.
Doutt, Ralph E.	Polk, Pa.
Dunlap, Hazel	Harrisville, Pa.
Ellenberger, Quay Dean	Cowansville, Pa.
Fails, G. Allen	Livermore, Pa.
Filer, Rollin E.	Grove City, Pa.
Forrest, Mary Helen	Grove City, Pa.
Gilbert, Helen W.	Titusville, Pa.

Hazlett, Annie E.....	Grove City, Pa.
Hazlett, Mary R.....	Grove City, Pa.
Henshaw, Harry.....	Houtzdale, Pa.
Herron, Wilmer B.....	Mercer, Pa.
Hettenbaugh, Christina.....	Grove City, Pa.
Hodge, Margaret.....	Grove City, Pa.
Homer, Lloyd D.....	Fredonia, Pa.
Kelso, John Scott.....	Avalon, Pa.
Korona, Louis W.....	Argentine, Pa.
Kroh, James H.....	Duquesne, Pa.
Kutscher, Charles F.....	Braddock, Pa.
McBride, Arthur R.....	Grove City, Pa.
McConnell, Dufferin.....	Wilkinsburg, Pa.
McCoy, Martha.....	Grove City, Pa.
McElligott, Edithmarion L.....	Butler, Pa.
McLaughlin, John R.....	Shippensburg, Pa.
Magee, Ralph C.....	Grove City, Pa.
Moon, Denton.....	Mercer, Pa.
Morledge, Joseph S.....	Grove City, Pa.
Munnell, Mabel E.....	Mercer, Pa.
Patterson, Charles L.....	Ellwood City, Pa.
Robbins, Glenna E.....	Grove City, Pa.
Rumsey, Roscoe B.....	Clintonville, Pa.
Shelley, Martha Rose.....	Grove City, Pa.
Shrum, John Edward.....	Greenwald, Pa.
Simmons, Jane F.....	Grove City, Pa.
Sisley, John Robert.....	Grove City, Pa.
Smith, Frankie E.....	Falls Creek, Pa.
Smith, Margaret L.....	Falls Creek, Pa.
Smith, Wendell P.....	Oil City, Pa.
Stepanian, Steven A.....	Hartford, Conn.
Stewart, Margaret E.....	Coal Glen, Pa.
Van Woert, Kathleen.....	Donora, Pa.
Wertman, Charles E.....	Franklin, Pa.
Williams, Ralph D.....	Grove City, Pa.
Woodward, Charles M.....	Indiana, Pa.
Young, Paul A.....	Grove City, Pa.
Younggren, Esther V.....	Ridgway, Pa.

Juniors

Abrams, E. Beach.....	Lima, Ohio
Albert, Sarepta.....	Mercer, Pa.
Allen, Sarah E.....	Allen's Mills, Pa.
Allison, John R.....	Grove City, Pa.
Barber, Elizabeth.....	Grove City, Pa.
Barnes, Charlie.....	Jackson Center, Pa.
Barnes, Eleanor.....	Grove City, Pa.
Book, Herbert.....	Grove City, Pa.
Bowmer, Cecil Leon.....	Grove City, Pa.
Bueno, Santiago.....	Palma Soriano, Cuba
Burrows, Hazel M.....	Grove City, Pa.
Butler, Rock L.....	Wellsboro, Pa.
Calderwood, Helen.....	Grove City, Pa.
Campbell, Malcolm.....	Grove City, Pa.
Campbell, Sutherland.....	Beaver, Pa.
Christian, Emma E.....	Sheffield, Pa.

Clark, Mary Zerlina.....	Grove City, Pa.
Covert, Nola.....	Grove City, Pa.
Crawford, Mabel E.....	East Brady, Pa.
Currier, Stanley.....	Mercer, Pa.
Dannels, Gordon E.....	Merrittstown, Pa.
Daugherty, Harold.....	Grove City, Pa.
Doherty, Stella.....	New Kensington, Pa.
Farren, John W.....	Harrisville, Pa.
Forbes, Isabel.....	Apollo, Pa.
Fredley, Henry E.....	Butler, Pa.
Gillespie, James H.....	Glen Spey, New York
Harshaw, Elizabeth E.....	Grove City, Pa.
Hemphill, Lynn J.....	Apollo, Pa.
Henderson, Katherine.....	West Pittsburgh, Pa.
Hespenheide, Ruth.....	Mars, Pa.
Hosick, Elizabeth M.....	Grove City, Pa.
Houston, Ramon S.....	Grove City, Pa.
Hoyt, Olin B.....	Fair Haven, New York
Humphrey, Walter E.....	Portersville, Pa.
Jack, Frank P.....	North Washington, Pa.
Jackson, Margaret.....	Saltsburg, Pa.
Jamison, Mary.....	Emlenton, Pa.
Jones, Alan.....	Grove City, Pa.
Jones, Benjamin F.....	DuBois, Pa.
Kilchenstein, Laila M.....	Sharon, Pa.
Kinley, Forrest L.....	Portland Mills, Pa.
Kryskill, William.....	Carnegie, Pa.
Lithgow, Lorna.....	Grove City, Pa.
McCandless, Garrett C.....	Grove City, Pa.
McCommon, Isaac.....	Grove City, Pa.
McDowell, Kenneth.....	Sharon, Pa.
McDowell, Mary I.....	Grove City, Pa.
McDowell, Quincy.....	Grove City, Pa.
Magee, Donald.....	Slippery Rock, Pa.
Montgomery, Edward A.....	Grove City, Pa.
Nason, Leonard E.....	Pleasantville, Pa.
Putts, Frederick J.....	Rensselaer, Indiana
Robinson, Rebecca E.....	Mercer, Pa.
Sakemiller, Roy.....	Columbus Grove, Ohio
Sayre, Floyd.....	Townville, Pa.
Sellers, Henry.....	Ford City, Pa.
Shaw, S. Benjamin.....	Brockwayville, Pa.
Shidemantle, Andrew.....	Parkers Landing, Pa.
Smith, Joseph H.....	Hartford, Conn.
Snyder, George A.....	Uhricsville, Ohio
Stormer, Lena E.....	Reynoldsville, Pa.
Taggart, Mabel M.....	Washington, Pa.
Tench, T. Edward.....	Leechburg, Pa.
Thompson, Deborah C.....	Grove City, Pa.
Tinker, Annie M.....	Grove City, Pa.
Tinker, Ruth M.....	Mercer, Pa.
Vath, Charles.....	Sandy Lake, Pa.
Welch, George McN.....	Grove City, Pa.
White, Zella J.....	Reynoldsville, Pa.
Williamson, Stanley W.....	Grove City, Pa.
Winton, Raymond S.....	Townville, Pa.
Young, Pauline E.....	Enon Valley, Pa.

Sophomores

Allen, Thurman T.....	Adamsville, Pa.
Allio, Florence A.....	Tylersburg, Pa.
Ambrose, Margaret.....	Rural Valley, Pa.
Anderson, Clarence R.....	Slippery Rock, Pa.
Anderson, Mildred.....	Lancaster, Ohio
Armstrong, R. Murray.....	Apollo, Pa.
Atkinson, William R.....	Grove City, Pa.
Baker, E. Meade.....	Valencia, Pa.
Baldwin, Permelia.....	Fayette City, Pa.
Barnes, Helen.....	Grove City, Pa.
Barnes, Howard.....	Grove City, Pa.
Bartoo, Dorr R.....	Harrison Valley, Pa.
Beck, Roy R.....	Echo, Pa.
Bible, Harold.....	Lima, Ohio
Black, Mable G.....	Grove City, Pa.
Blatt, Fred.....	Freedom, Pa.
Bohlender, John.....	Grove City, Pa.
Boren, Howard G.....	Lowellville, Ohio
Borland, Marie.....	Rockland, Pa.
Boundy, Glenn.....	Grove City, Pa.
Boundy, Ray.....	Grove City, Pa.
Boyd, Harry.....	Sharon, Pa.
Boyd, Margaret.....	Sandy Lake, Pa.
Briggs, Warren H.....	Shinglehouse, Pa.
Brown, Harry.....	Youngstown, Ohio
Burnham, Lois.....	Strattonville, Pa.
Campbell, Lois.....	Prospect, Pa.
Campbell, Mary.....	Fredonia, Pa.
Christensen, Marvin.....	DuBois, Pa.
Christie, James.....	Grove City, Pa.
Christy, Ruth.....	Grove City, Pa.
Clark, Arthur.....	Grove City, Pa.
Clark, Howard.....	Avalon, Pa.
Covert, Thomas D.....	Grove City, Pa.
Curry, Agnes.....	Grove City, Pa.
Dale, Fred F.....	Grove City, Pa.
Daugherty, Frances.....	Belle Vernon, Pa.
Dean, Rodney.....	Ellwood City, Pa.
Deen, Dorothy.....	Academia, Pa.
Denny, Beatrice.....	Vanport, Pa.
DeWoody, Gerald.....	Grove City, Pa.
Dickson, Helen.....	Greenville, Pa.
Diefenderfer, Ellis G.....	New Castle, Pa.
Dillon, Carolyn.....	Beaver, Pa.
Dodd, Leila M.....	Grove City, Pa.
Dosch, Ruth.....	Kittanning, Pa.
Dunbar, Mary Logan.....	Old Concord, Pa.
Durfee, Edwin H.....	Townville, Pa.
Edinger, Olive.....	Fern, Pa.
Elder, Harry.....	Stoneboro, Pa.
Emery, Robert.....	Grove City, Pa.
Fawcett, Robert.....	DuBois, Pa.
Fitzgerald, Anna.....	Beaver, Pa.
Foster, Albert.....	Oil City, Pa.
France, Curtis K.....	Blairsville, Pa.

Fruit, Lucile.....	Avalon, Pa.
Furman, Wayne.....	Baxter, Pa.
Garrett, Margaret.....	Beaver, Pa.
Gillett, David.....	Townville, Pa.
Gilliland, Jane E.....	Pittsburgh, Pa.
Gilson, Weir.....	Grove City, Pa.
Glenn, Howard.....	Mercer, Pa.
Gourley, Sarah.....	Punxsutawney, Pa.
Gray, Lillian L.....	Amity, Pa.
Guyton, Paul.....	Stoneboro, Pa.
Henderson, Forrest.....	Franklin, Pa.
Hill, Richard.....	Geneva, Pa.
Hillegass, Edna.....	Point, Pa.
Hipps, Margaret.....	Curwensville, Pa.
Hoesch, Ellwood M.....	Greenville, Pa.
Hoffman, Kelse.....	Clintonville, Pa.
Hoffmaster, Wright.....	Grove City, Pa.
Hoover, F. M.....	Youngstown, Ohio
Hough, Clarence.....	Greenville, Pa.
Jackson, Elizabeth.....	Apollo, Pa.
Jamison, Mildred.....	Grove City, Pa.
Jennings, Vera.....	Tidioute, Pa.
Johnston, Helen.....	Ligonier, Pa.
Jones, Margaret.....	Ligonier, Pa.
Keefer, Glenn.....	Leechburg, Pa.
Kerr, Roy.....	Titusville, Pa.
Kingan, Lois.....	Grove City, Pa.
Kuhn, Alice.....	Grove City, Pa.
Kuhn, Harold.....	Hadley, Pa.
Laderer, William.....	Evans City, Pa.
Lance, Gilbert.....	Portland Mills, Pa.
Lee, Gertrude.....	Painesville, Ohio
Leib, Gretchen.....	Curwensville, Pa.
Leslie, Edwin.....	Sharon, Pa.
Linn, Charles.....	Beaver, Pa.
Long, J. Erskine.....	Avonmore, Pa.
Lowers, Paul M.....	Stoneboro, Pa.
Lukehart, James V.....	Falls Creek, Pa.
McCandless, Calvin S.....	North Washington, Pa.
McCandless, Lee C.....	Euclid, Pa.
McClain, Ruth.....	Miola, Pa.
McCracken, Theodore.....	Mahaffey, Pa.
McCrae, Jessie.....	Mercer, Pa.
McCullough, Walter H.....	Vandergrift, Pa.
McCune, Louise.....	Butler, Pa.
McKenzie, Earl.....	Mercer, Pa.
McLaughlin, Edward.....	Shippensburg, Pa.
Mahle, Alberta.....	Sandy Lake, Pa.
Maier, Louise.....	Latrobe, Pa.
Mann, James.....	Freedom, Pa.
Mapes, Esther.....	Mercer, Pa.
Marshall, Wyona.....	Dayton, Pa.
Meyers, Marie.....	Somerset, Pa.
Milheim, Irvine.....	Sharon, Pa.
Miller, Pearl.....	Somerset, Pa.
Montgomery, Helen.....	Fredonia, Pa.
Montgomery, William H.....	Grove City, Pa.

Moon, Irene.....	Mercer, Pa.
Moss, Julia.....	Conneaut Lake, Pa.
Moss, Ralph S.....	Conneaut Lake, Pa.
Nolf, Earl.....	Leechburg, Pa.
Patterson, Evelyn.....	Grove City, Pa.
Patton Margaret.....	Vandergrift, Pa.
Perrine, Mary.....	Sandy Lake, Pa.
Perrine, Theodore.....	Sandy Lake, Pa.
Pew, Howard.....	Canonsburg, Pa.
Ralston, Paul N.....	Conneaut Lake, Pa.
Reiter, Lawrence.....	Edgewood, Pittsburgh, Pa.
Robinson, Lois.....	Slate Lick, Pa.
Royce, Lillie.....	Conneaut, Ohio
Schleiter, Frederick.....	Freedom, Pa.
Shellito, Ralph.....	Grove City, Pa.
Shillito, Harold.....	Grove City, Pa.
Shirey, Zola.....	Latrobe, Pa.
Shorts, Richard.....	Franklin, Pa.
Smith, Margaret L.....	Falls Creek, Pa.
Smith, Mildred.....	Falls Creek, Pa.
Smith, Robert.....	Etna, Pa.
Snyder, Harry.....	Baden, Pa.
Sterrett, Charles E.....	Jackson Center, Pa.
Stewart, J. Carroll.....	Creekside, Pa.
Stuart, John A.....	Erie, Pa.
Tallant, James C.....	Murrysville, Pa.
Terwilliger, W. Bird.....	Fisher, Pa.
Thounhurst, Ralph.....	Wilkinsburg, Pa.
Turner, Sarah A.....	Blairsville, Pa.
Waldron, Kenneth.....	Grove City, Pa.
Ward, Russell.....	Pleasantville, Pa.
Weaver, Frank R.....	Mahaffey, Pa.
White, Grace.....	Juniata, Pa.
White, Kenneth F.....	Grove City, Pa.
Williams, Anna.....	Delmont, Pa.
Wilson, James S.....	Grove City, Pa.
Wilson, Joshua T.....	New Kensington, Pa.

Freshmen

Albert, Geneva.....	Mercer, Pa.
Anderson, Charles W.....	Franklin, Pa.
Anderson, Howard.....	Steubenville, Ohio
Anderson, Margaret W.....	Vandergrift, Pa.
Bailey, Harold.....	New Bedford, Pa.
Baltz, Thelma.....	Bellevue, Pa.
Bastress, Russell.....	Grove City, Pa.
Bath, Blair.....	Indiana, Pa.
Beckwith, Frank W.....	Westford, Pa.
Bertolotti, Henry.....	Yohogany, Pa.
Besnecker, Harry.....	Evans City, Pa.
Black, Arthur.....	Mercer, Pa.
Black, Bertha.....	Brookville, Pa.
Blair, Helen M.....	Sharpsville, Pa.
Bowden, Clifford.....	Grove City, Pa.
Bowie, Raymond.....	Grove City, Pa.
Briggs, Thomas E.....	Grove City, Pa.

Buller, Edythe.....	Corry, Pa.
Buller, Jeanette.....	Corry, Pa.
Burns, Charlotte.....	Latrobe, Pa.
Büsler, Charles.....	Grove City, Pa.
Campbell, Margaret.....	Grove City, Pa.
Campbell, Porter J.....	Grove City, Pa.
Campbell, Robert J.....	Grove City, Pa.
Clark, LeRoy.....	Grove City, Pa.
Clees, William.....	Ridgway, Pa.
Cowan, William R.....	Corsica, Pa.
Cowen, Floyd.....	Roscoe, Pa.
Coyer, Howard.....	Grove City, Pa.
Crill, Kenneth.....	Mercer, Pa.
Cross, Amber.....	Youngstown, Ohio
Cumming, Margaret.....	Sugargrove, Pa.
Duppstadt, Josephine.....	Somerset, Pa.
Evans, Paul K.....	Hustontown, Pa.
Fisher, Harry B.....	Swissvale, Pa.
Fleming, Willard.....	Cochranon, Pa.
Forrest, John.....	Grove City, Pa.
Foy, Beryl.....	Clarks Mills, Pa.
Foy, Myrna.....	Tylersburg, Pa.
Frable, Mildred.....	Latrobe, Pa.
Fulmer, Dorothy.....	Oakdale, Pa.
Galloway, Jean.....	Bentleyville, Pa.
Geddes, June.....	Lowellville, Ohio
George, Ethel.....	Grove City, Pa.
Gillespie, Robert F.....	Erie, Pa.
Girvan, Nellie.....	Beaver Falls, Pa.
Goehring, Arthur.....	Zelienople, Pa.
Goehring, Donald.....	Brockwayville, Pa.
Graham, Stella.....	Mercer, Pa.
Greer, Paul.....	North Braddock, Pa.
Guthrie, Dwight.....	Apollo, Pa.
Hammer, Glenn.....	Derry, Pa.
Harker, Stanley.....	Sharon, Pa.
Harmon, Paul J.....	Grove City, Pa.
Harmon, William.....	Grove City, Pa.
Henry, John, Jr.....	East Brady, Pa.
Hershey, Emily.....	Dauphin, Pa.
Hill, David.....	Indiana, Pa.
Hipps, Joseph R.....	Curwensville, Pa.
Holstein, Walter E.....	Franklin, Pa.
Horst, William.....	Wilkinsburg, Pa.
Hosack, Mabel.....	Mercer, Pa.
Hoyt, Gilbert.....	Grove City, Pa.
Hyde, Robert C.....	Sharon, Pa.
Irvine, James O.....	Conneaut Lake, Pa.
Jahnig, Viola.....	Saxonburg, Pa.
James, Edith.....	Franklin, Pa.
Jones, Howard E.....	Youngstown, Ohio
Kirkwood, Barclay.....	Sharpsville, Pa.
Klugh, Hazel.....	Kittanning, Pa.
Koehler, John.....	North Braddock, Pa.
Kramer, Harold.....	Erie, Pa.
Lane, Hugh G.....	Uniontown, Pa.
Lewis, Constance.....	Farrell, Pa.

Lloyd, Addinell.....	Erie, Pa.
Lopeman, Charles T.....	Bellaire, Ohio
McClelland, George G.....	Portersville, Pa.
McConnell, Blanche.....	Grove City, Pa.
McCreary, Fred R.....	Hillsville, Pa.
McCullough, Robert F.....	Youngstown, Ohio
McCune, Mary.....	Butler, Pa.
McDermott, A. I.....	Bellaire, Ohio
McDougall, Eleanor.....	Grove City, Pa.
McDowell, Harriet.....	Grove City, Pa.
McIlwain, Russell.....	Pittsburgh, Pa.
McKay, Raymond.....	Oil City, Pa.
McLaughlin, Edward J.....	Westville, Pa.
McMaster, Fred G.....	Sharon, Pa.
McQuiston, Marie K.....	Jamestown, Pa.
Makepeace, Ruth.....	North Braddock, Pa.
Markle, M. C. J.....	New Bethlehem, Pa.
Marquand, Paul.....	Grove City, Pa.
Marshall, Mary.....	Smicksburg, Pa.
Master, Carl.....	Fern, Pa.
Mawhinney, Jacob.....	Tarr, Pa.
Maxwell, Verne.....	Pitcairn, Pa.
Maycock, Josephine.....	Waterford, Pa.
Miller, Bruce.....	St. Petersburg, Pa.
Miller, Pressley Boyd.....	Parnassus, Pa.
Minor, Ethel.....	Wilcox, Pa.
Minor, Eunice.....	Jefferson, Pa.
Mohr, C. Melvin.....	Freedom, Pa.
Montgomery, Alice.....	Grove City, Pa.
Montgomery, William E.....	Grove City, Pa.
Moon, Edwin.....	Mercer, Pa.
Morrow, Rosanna.....	Punxsutawney, Pa.
Muller, Max.....	Grove City, Pa.
Murray, Walter W.....	New Kensington, Pa.
Nethery, William.....	Chester, Pa.
Oskin, Bernard.....	Swissvale, Pa.
Perri, Margaret.....	Donora, Pa.
Post, Esther.....	Grove City, Pa.
Powell, Marion.....	Cochran, Pa.
Richards, Margaret.....	Moosic, Pa.
Rimer, Harrison.....	Clarion, Pa.
Ringer, Arthur.....	Mercer, Pa.
Ripper, LaVerne.....	Evans City, Pa.
Roof, Gorman.....	Pen Argyl, Pa.
Rook, Harry.....	Youngstown, Ohio
Rossman, Vera.....	Knox, Pa.
Russ, Isabel.....	Oakdale, Pa.
Schachern, Ieland.....	Monaca, Pa.
Sheridan, Andrew.....	Sharon, Pa.
Shillito, Raymond.....	Grove City, Pa.
Shiray, Thelma.....	New Kensington, Pa.
Smiley, Daisy.....	Pittsburgh, Pa.
Smith, Alfred E.....	Pittsburgh, Pa.
Smith, Donald E.....	Monessen, Pa.
Smith, Jay B.....	Falls Creek, Pa.
Smith, Martin W.....	Canton, Ohio
Stephenson, W. L.....	Mahaffey, Pa.

Stewart, George H.	Sharpsville, Pa.
Stoughton, Willamina	Vandergrift, Pa.
Strothers, John H.	Grove City, Pa.
Stubbs, John	Scotthaven, Pa.
Styers, Kenneth C.	Grove City, Pa.
Surrena, Leonard	Grove City, Pa.
Taggart, M. Lloyd	Washington, Pa.
Talling, Fern	Erie, Pa.
Talling, Gladys	Erie, Pa.
Taylor, Katherine	Youngstown, Ohio
Teare, Mary	Grove City, Pa.
Teats, Jane	Curwensville, Pa.
Thompson, Ralph H.	Freedom, Pa.
Trimble, Louise	Bellevue, Pa.
Turner, Alfred	Grove City, Pa.
Vanderlin, Myra	Grove City, Pa.
Wagner, Wilbert	Derry, Pa.
Wallace, John	Franklin, Pa.
Wallwork, George F.	Summerville, Pa.
Wareham, Raymond	Grove City, Pa.
Weaver, Rayma	Grove City, Pa.
Wellinger, Anna	Brackenridge, Pa.
White, Allen	Grove City, Pa.
White, Elizabeth S.	Juniata, Pa.
Wiley, Warren	Edinburg, Pa.
Williams, Evelyn	Hartstown, Pa.

Special Students

Allen, Charles	West Sunbury, Pa.
Bone, William A.	Grove City, Pa.
Bowen, Achsah M.	Akron, Ohio
Donahue, Gladys	Pittsburgh, Pa.
Fahnlne, John W.	Sharon, Pa.
Fisher, Eleanor	Swissvale, Pa.
Forsythe, Elizabeth J.	Mercer, Pa.
Gillette, Elizabeth G.	Townville, Pa.
Glasgow, Lois E.	Grove City, Pa.
Harlan, Sheridan H.	Franklin, Pa.
Hasson, Richard R.	California, Pa.
Henry, Marian	Grove City, Pa.
Henry, Vergil R.	Conneaut, Ohio
Hildum, Jane Betty	Warren, Pa.
Kane, Thomas	Kane, Pa.
Kutscher, Robert	Bellevue, Pa.
McNeish, Harry E.	Grove City, Pa.
McQuiston, May	Grove City, Pa.
Mawn, Francis E.	Johnsonburg, Pa.
Mayo, Margaret V.	Duquesne, Pa.
Menser, Harry A.	Somerset, Pa.
Patterson, Norman V.	Slippery Rock, Pa.
Phipps, Joseph	Clintonville, Pa.
Post, Harry	Erie, Pa.
Robins, Iva	Grove City, Pa.
Rugh, Charles	Indiana, Pa.
Rumbaugh, Twila	Grove City, Pa.
Scott, Prudence V.	Grove City, Pa.

Shira, Craig.....	Grove City, Pa.
Simons, Eileen.....	St. Marys, Pa.
Tobin, Edith R.....	Brockwayville, Pa.
Urch, Edward R.....	Wattsburg, Pa.
Wallwork, Jesse E.....	Summerville, Pa.
Wareham, Leona E.....	Grove City, Pa.
Winsburg, Haskell.....	Grove City, Pa.

Art

Bell, Elizabeth A.....	Punxsutawney, Pa.
Blythe, Mrs. Don.....	Grove City, Pa.
Christy, Mary R.....	Grove City, Pa.
Dunlap, Gladys.....	Chicora, Pa.
Glenn, Eleanor.....	Grove City, Pa.
Hosack, Ora.....	Grove City, Pa.
Hosick, Mary E.....	Grove City, Pa.
Jackson, Margaret.....	Saltsburg, Pa.
McClelland, Ivy.....	Grove City, Pa.
McCune, Grace.....	Grove City, Pa.
McGarey, Pearl.....	Grove City, Pa.
Rathburn, Thelma.....	Youngstown, Ohio
Spearman, Ruth.....	Grove City, Pa.
White, Donald.....	Grove City, Pa.

Pedagogy Summer Term 1922

Almes, Violet L.....	Edmon, Pa.
Anderson, Ethel M.....	Wilcox, Pa.
Aubel, Helen.....	Fredonia, Pa.
Baker, Mrs. Mary S.....	Grove City, Pa.
Barber, Esther M.....	Grove City, Pa.
Biddle, Ada.....	McKeesport, Pa.
Bjork, Ellen D.....	Bradford, Pa.
Bloom, Oma J.....	New Millport, Pa.
Bortz, Martha E.....	Apollo, Pa.
Brenneman, Catherine E.....	Mercer, Pa.
Briggs, Lulu A.....	Grove City, Pa.
Brophy, Mrs. Flora.....	Nanty-Glo, Pa.
Brown, Mrs. Mae E.....	Clark, Pa.
Burke, Mae E.....	North Girard, Pa.
Butz, Gertrude.....	Shawmut, Pa.
Callahan, Alice A.....	St. Marys, Pa.
Catherwood, Bertha M.....	Gibsonia, Pa.
Catherwood, Ruby E.....	Gibsonia, Pa.
Christopher, D. Byron.....	Masontown, Pa.
Christy, Mary E.....	McKeesport, Pa.
Claypool, Mary I.....	Vandergrift, Pa.
Clinton, Reba H.....	Penfield, Pa.
Coleman, Mrs. Gertrude.....	Punxsutawney, Pa.
Coleman, Mabel C.....	Punxsutawney, Pa.
Collins, Jane.....	Franklin, Pa.
Colton, Harold J.....	Augusta, Kansas
Courtney, Eleanor S.....	Mercer, Pa.
Curry, Frances P.....	Mahaffey, Pa.
Dickey, Ruth W.....	Avonmore, Pa.
Ditter, Kathryn.....	Boston, Pa.

Doty, Helene D.....	Derry, Pa.
Douds, Ellen G.....	Mercer, Pa.
Dunlap, Mrs. Amanda J.....	DuBois, Pa.
Dunlap, Ethel M.....	Harrisville, Pa.
Ehrhart, Ruth E.....	McKeesport, Pa.
Foote, Cecile E.....	Bradford, Pa.
Fox, Paul W.....	New Stanton, Pa.
Fratcher, Anna C.....	Butler, Pa.
Garber, Elizabeth P.....	Roaring Spring, Pa.
Gillingham, Margaret.....	Donora, Pa.
Gilmore, Edith L.....	Grove City, Pa.
Gould, Beatrice.....	Butler, Pa.
Green, Florence M.....	Wilkinsburg, Pa.
Gregg, Ethel M.....	Kane, Pa.
Gross, Margaret E.....	McKeesport, Pa.
Grover, Helen C.....	McKeesport, Pa.
Haggerty, Helen E.....	Greenville, Pa.
Hamilton, Paul N.....	Mercer, Pa.
Haun, Clara M.....	Mercer, Pa.
Healy, Cora K.....	Bradford, Pa.
Heckard, Edith V.....	Franklin, Pa.
Hepler, Esther J.....	East Brady, Pa.
Hill, Bessie R.....	McKeesport, Pa.
Hixson, Bertha M.....	Sandy Lake, Pa.
Hoak, Ethel M.....	Port Vue, Pa.
Hooper, Elsie R.....	McKeesport, Pa.
Houston, Mrs. Edith P.....	Grove City, Pa.
Howe, Jeanette S.....	Grove City, Pa.
Hutchison, Charles A.....	Nebraska, Pa.
Iseman, Milton K.....	Freeport, Pa.
Itscoitz, Elsie M.....	McKeesport, Pa.
Jacobs, Edna B.....	Monongahela, Pa.
Jamison, Kenneth.....	Jackson Center, Pa.
Johnston, Mrs. Arvid.....	Wheatland, Pa.
Johnston, Mrs. Berdina.....	Wilcox, Pa.
Jordan, Estelle R.....	Bradford, Pa.
Junkin, Helen M.....	Clark, Pa.
Kernan, Joseph M.....	Westfield, Pa.
Kerr, Gladys S.....	McKeesport, Pa.
Kimble, Dorothy J.....	New Kensington, Pa.
Kincaid, Daisy M.....	McKeesport, Pa.
Kistner, Helen E.....	McKeesport, Pa.
Krapf, Leah R.....	Parnassus, Pa.
Lawrence, Dorothy L.....	St. Marys, Pa.
Lawrence, Elizabeth B.....	St. Marys, Pa.
Lindsey, James L.....	Portland Mills, Pa.
Little, Millie E.....	Westford, Pa.
Livingston, Ruth.....	Greenville, Pa.
McBride, Evelyn E.....	Butler, Pa.
McBride, Mrs. Florence S.....	Grove City, Pa.
McCall, Charlotte J.....	Butler, Pa.
McClelland, James S.....	Masontown, Pa.
McClelland, Opal M.....	Renfrew, Pa.
McClelland, Sarah A.....	Cooperstown, Pa.
McConnell, Alice H.....	Carlton, Pa.
McCullough, Frances R.....	Mercer, Pa.
McDougall, Martha L.....	Mercer, Pa.

McIntosh, Thomas W.	Pittsburgh, Pa.
McMillen, Nell G.	McKeesport, Pa.
McNulty, Clare A.	Connellsville, Pa.
Marsh, Edithe M.	Salix, Pa.
Marsh, Minnie B.	Salix, Pa.
Martin, Loyal D.	Butler, Pa.
Miles, Rebecca G.	Mercer, Pa.
Minnick, Hazel M.	Johnsonburg, Pa.
Mitchel, Ethel M.	Mercer, Pa.
Moore, Viola	Mercer, Pa.
Morgan, Myrtle E.	Avonmore, Pa.
Morrow, Ethel B.	Bradford, Pa.
Mortland, Grace E.	Rixford, Pa.
Mowry, Lorena P.	Transfer, Pa.
Mull, Anna W.	McKeesport, Pa.
Nicholas, Beatrice E.	Butler, Pa.
O'Brien, Elizabeth M.	Patton, Pa.
Offutt, Gladys F.	Volant, Pa.
Parker, Theodore L.	North East, Pa.
Patton, Nellie	Sandy Lake, Pa.
Pearce, Genevieve M.	Pardoe, Pa.
Peden, Nina Marie	Sandy Lake, Pa.
Peterson, Ethel M.	Wilcox, Pa.
Peterson, Floretta	McDonald, Pa.
Postlewaite, Amy	Reynoldsville, Pa.
Pringle, Cressie	Sharpsville, Pa.
Pringle, James A.	Grove City, Pa.
Raught, Marybelle	Arnold, Pa.
Redick, Mary P.	Freeport, Pa.
Reimold, Marie B.	Transfer, Pa.
Reinhart, Sarah F.	Greenville, Pa.
Renninger, Lotta L.	Franklin, Pa.
Reynolds, Olive E.	Franklin, Pa.
Riddle, Genevieve	Emlenton, Pa.
Ritner, Marion D.	Bruin, Pa.
Roche, Austin C.	Old Forge, Pa.
Root, Mrs. Ruth Davis	Franklin, Pa.
Ross, Grace M.	Danville, Ky.
Rumbaugh, Lillian M.	Avonmore, Pa.
Russell, Mary	Fredonia, Pa.
Seitz, Mary F.	McKeesport, Pa.
Senior, Ada	Falls Creek, Pa.
Shaffer, Edna R.	Hallton, Pa.
Shaffer, Nellie W.	Freeport, Pa.
Shaffer, Roland A.	Brockwayville, Pa.
Shaffer, Zelda M.	Hallton, Pa.
Shelander, Melba M.	St. Marys, Pa.
Smiley, Frances A.	Franklin, Pa.
Smith, Mrs. J. D.	Farrell, Pa.
Smith, Mary Elizabeth	Bradford, Pa.
Smith, Nina M.	Eriton, Pa.
Snively, Myrtle	Greensburg, Pa.
Stevens, Irene R.	Duquesne, Pa.
Stevenson, Janet C.	Bradford, Pa.
Stone, Margaret S.	Franklin, Pa.
Stone, Martha V.	McKeesport, Pa.
Stone, Theresia J.	McKeesport, Pa.

Strawbridge, Edith H.....	Guys Mills, Pa.
Struthers, May M.....	Mercer, Pa.
Taylor, Helen E.....	McKeesport, Pa.
Thomas, Hilda D.....	Taylor, Pa.
Tibbitts, Myrtle E.....	Bradford, Pa.
Townsend, Roberta B.....	Vandergrift, Pa.
Tyson, Esther M.....	McKeesport, Pa.
Vickerman, Gertrude P.....	Mercer, Pa.
Vincent, Quincy.....	West Middlesex, Pa.
Vogeley, Eleanor.....	Butler, Pa.
Wagner, Ruth A.....	Greenville, Pa.
Ward, Olive M.....	Grove City, Pa.
Weinel, Etta I.....	Freeport, Pa.
Weinel, Mary A.....	Apollo, Pa.
Welch, Edward F.....	Fredonia, Pa.
White, Dorothy M.....	Westford, Pa.
Wiegand, Laura E.....	Dravosburg, Pa.
Willaman, Rose M.....	Transfer, Pa.
Wingard, Mary E.....	Grove City, Pa.
Wolverton, Jennie M.....	Espyville Station, Pa.
Worrall, Marion D.....	McKeesport, Pa.
Yetzer, Freda P.....	Penfield, Pa.

CONSERVATORY OF MUSIC

Graduates (Full Course Students)

VOCAL TEACHERS' COURSE AND CHURCH SOLOIST

Florence Mae Detrick.....	Butler, Pa.
Margaret Ellen Hodge.....	Grove City, Pa.

INDEPENDENT DEVELOPMENT AS CONCERT SINGER

Florence Breckenridge.....	Grove City, Pa.
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PIANO TEACHERS' COURSE—TEACHING BEGINNING GRADE

Thelma Matilda Coast.....	Grove City, Pa.
Helen Elizabeth Vance.....	Ligonier, Pa.

INDEPENDENT DEVELOPMENT AS PIANIST

Esther Victoria Younggren.....	Ridgway, Pa.
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ABILITY AS PIANIST

Aaron Gross.....	Grove City, Pa.
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SUPERVISOR OF MUSIC

Margaret Ellen Hodge.....	Grove City, Pa.
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VIOLIN

Erla Ocilla Coleman.....	Grove City, Pa.
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Undergraduates

PIANO

Atwell, Bernice.....	Grove City, Pa.
Black, Mable G.....	Grove City, Pa.
Buller, Jeannette.....	Corry, Pa.
Coleman, Erla.....	Grove City, Pa.
Cross, Amber.....	Youngstown, Ohio
Donaldson, Alberta.....	Grove City, Pa.
Duffy, Mary.....	Harrisville, Pa.
Dunlap, Gladys M.....	Chicora, Pa.
Gilmore, Edith L.....	Grove City, Pa.
Hoffman, Louise.....	Grove City, Pa.
Jackson, Elizabeth.....	Apollo, Pa.
Laderer, William.....	Evans City, Pa.

McClelland, Mrs. H. G.....	Mercer, Pa.
Mayo, Margaret.....	Duquesne, Pa.
Melcher, Roberta.....	Grove City, Pa.
Montgomery, Anna Louise.....	Grove City, Pa.
Munnell, Ada.....	Mercer, Pa.
Rupert, Alice.....	Mercer, Pa.
Shoaff, Helen.....	Volant, Pa.
Smith, Katherine.....	Grove City, Pa.
Thomas, Carolyn.....	Grove City, Pa.
Turner, Gladys.....	Pardoe, Pa.
Webster, Goodwin.....	Harveys, Pa.
Wilt, Rozella.....	Derry, Pa.

VOCAL

Anderson, Margaret.....	Vandergrift, Pa.
Butz, Gertrude.....	Shawmut, Pa.
Campbell, Lois.....	Prospect, Pa.
Curry, Agnes.....	Grove City, Pa.
Davis, Genevieve.....	Grove City, Pa.
Galloway, Jean.....	Bentleyville, Pa.
Joseph, Mary.....	New Castle, Pa.
Kelly, Mrs. H. A.....	Grove City, Pa.
Krapf, Leah.....	Parnassus, Pa.
Melcher, Roberta.....	Grove City, Pa.
Moser, Jean.....	Butler, Pa.
Munnell, Ada.....	Mercer, Pa.
Parker, Dorothy.....	Parkers Landing, Pa.
Richards, Clara.....	Hilliards, Pa.
Stevens, Irene.....	Duquesne, Pa.
Stoughton, Willamina.....	Vandergrift, Pa.
Thompson, Deborah.....	Grove City, Pa.
Woods, Margaret.....	Polk, Pa.

ORGAN

Breckenridge, Florence.....	Grove City, Pa.
Fruit, Lucile.....	Avalon, Pa.
Galloway, Jean.....	Bentleyville, Pa.
Mapes, Esther.....	Mercer, Pa.
Moser, Jean.....	Butler, Pa.
Vance, Helen.....	Ligonier, Pa.
Wilt, Rozella.....	Derry, Pa.

VIOLIN

Donaldson, Alberta.....	Grove City, Pa.
Green, Florence.....	Grove City, Pa.
Master, Carl.....	Fern, Pa.
Minor, Eunice.....	Jefferson, Pa.
Teare, Mary.....	Grove City, Pa.

HARMONY

Black, Mable.....	Grove City, Pa.
Campbell, Lois.....	Prospect, Pa.
Duffy, Mary.....	Harrisville, Pa.
Master, Carl.....	Fern, Pa.
Moser, Jean.....	Butler, Pa.

Parker, Dorothy.....	Parkers Landing, Pa.
Shoaf, Helen.....	Volant, Pa.
Thomas, Carolyn.....	Grove City, Pa.
Wilt, Rozella.....	Derry, Pa.

COUNTERPOINT

Cross, Amber.....	Youngstown, Ohio
Younggren, Esther.....	Ridgway, Pa.

ELEMENTS OF MUSIC

Munnell, Ada.....	Mercer, Pa.
Shoaf, Helen.....	Volant, Pa.
Wilt, Rozella.....	Derry, Pa.

TEACHER'S INSTRUCTION, PIANO AND VOCAL

Campbell, Lois.....	Prospect, Pa.
Moser, Jean.....	Butler, Pa.

Intermediate Department

PIANO

Armitage, E.	Grove City, Pa.
Cleeland, Mertie.....	Grove City, Pa.
Cleeland, Ross.....	Grove City, Pa.
Elliott, M.....	Grove City, Pa.
Hinds, V.....	Grove City, Pa.
Hosack, L.....	Grove City, Pa.
Hosack, M.....	Grove City, Pa.
Monroe, B.....	Grove City, Pa.
Monroe, M.....	Grove City, Pa.

Model Department

PIANO

Fryman, M.....	Grove City, Pa.
Martin, E.....	Grove City, Pa.
Montgomery, Alice.....	Grove City, Pa.
White, Marian.....	Grove City, Pa.
Williamson, S.....	Grove City, Pa.
Williamson, T.....	Grove City, Pa.

VOCAL

Harmon, Anna.....	Grove City, Pa.
Henderson, E.....	Grove City, Pa.
Jamison, M.....	Grove City, Pa.
Jamison, Virginia.....	Grove City, Pa.

VIOLIN

Allen, F.....	Grove City, Pa.
Engle, H.....	Grove City, Pa.
Koerner, Osborn.....	Grove City, Pa.
Lauderdale, W.....	Grove City, Pa.

SUMMARY

Collegiate Department

	MEN	WOMEN	TOTAL
Graduates, June, 1922.....	31	25	56
Post Graduates	9	9	18
Seniors	37	25	62
Juniors	44	29	73
Sophomores	88	61	149
Freshmen	97	60	157
Special	18	17	35
Art	1	13	14
Pedagogy, Summer, 1922.....	19	146	165

Music Department

Graduates	1	7	8
Piano	2	22	24
Vocal		18	18
Organ		7	7
Violin	1	4	5
Harmony	1	8	9
Counterpoint		2	2
Elements of Music.....		3	3
Teachers' Instruction, Piano.....		2	2
Teachers' Instruction, Vocal.....		2	2
Model Department		14	14
Intermediate Department	1	8	9
Different Students, Fall 1921 through Summer 1922	313	407	720

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